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SHEKAR ENGINEERING, PLC

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Doc # 32989

February 5, 2004

Mr. Marlo Gillotti
The Gillotti Companies
5600 Enterprise Drive
Grimes, IA 50111

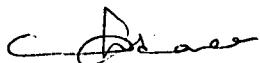
RE: Concrete Supply Construction Rubble Site
1108 SE 30th Street, Des Moines, Iowa.
Landfill Permit #77-SDP-86P.

Dear Mr. Gillotti:

Enclosed please find 2003 annual site monitoring report for the referenced site. The Iowa Department of Natural Resources approved Hydrologic Monitoring System Plan (HMS) requires submittal of annual monitoring reports. I have submitted a copy of the annual monitoring report to the IDNR.

Should you have any questions or need additional information, please feel free to call Mr. Chandra Shekar at 515-334-5062.

Sincerely,



Mr. Chandra Shekar, P.E.
Iowa P.E. Registration #13663

cc:

✓Mr. Fred Benson
IDNR Solid Waste Section
Wallace State Office Building
Des Moines, IA 50319

2004 FEB 10 P 261
DEPT. OF
NATURAL RESOURCES

OUTSTANDING

ANNUAL LANDFILL MONITORING REPORT (2003)

**CONCRETE SUPPLY AND CONSTRUCTION RUBBLE SITE
1108 SE 30TH STREET
DES MOINES, IA**

IDNR PERMIT NUMBER: 77-SDP-24-86P

SUBMITTED TO

**The Gillotti Companies
5600 Enterprise Drive
Grimes, IA 50111**

and

Solid Waste Section of the IDNR

PREPARED BY

**SHEKAR ENGINEERING, PLC
PO BOX 3625
DES MOINES, IA 50322
Phone: 515-334-5062, FAX: 515-334-5052**

Project Engineer: Mr. Chandra Shekar, P.E.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Iowa.

Signature:



Name: Mr. Chandra Shekar, P.E.

Date: 2/5/2004

Reg. No.: 13663

Expiration Date: 12/1/2005

TABLE OF CONTENTS

| PARTICULARS | PAGE NO. |
|--|----------|
| 1.0 Introduction | 1 |
| 2.0 Background | 1 |
| 3.0 Monitoring Well Maintenance and Performance Evaluation | 1 |
| 4.0 Method of Statistical Analysis | 2 |
| 5.0 Discussion of Statistical Evaluation | 3 |
| 6.0 Recommendation | 3 |

APPENDICES

| | |
|------------|---------------------|
| Appendix 1 | Tables 1 through 16 |
| Appendix 2 | Maps |
| Appendix 3 | Contaminant Graphs |
| Appendix 4 | IDNR Sampling Forms |
| Appendix 5 | Laboratory Reports |

SITE MONITORING ANNUAL REPORT - 2003

**Concrete Supply Construction Rubble Site
(Landfill Permit #77-SDP-86P)
1108 SE 30th Street, Des Moines, Iowa.**

1.0 Introduction:

Shekar Engineering (SE) has prepared this annual report for the Concrete Supply and Construction Rubble Site in Des Moines, Iowa. The report is based upon semi-annual and annual groundwater sampling of the on-site monitoring wells and a surface water body.

2.0 Background Information

The Concrete Supply and Construction Rubble Site in Des Moines, Iowa, which used to be a construction and demolition (C & D) Landfill was closed in 1989. At present, the site does not accept any regulated material. However, to fill the low-lying areas of the site, clean dirt and broken concrete are accepted.

A Hydrologic Monitoring System Plan (HMSP) was approved (6/19/96) by the Iowa Department of Natural Resource (IDNR) and required quarterly site monitoring for the first year and semi annual site monitoring for the second year and so on. Landfill Closure Permit was approved in January 2000.

As part of the monitoring, groundwater and surface water samples were collected and analyzed for Iowa Landfill Parameter e during semi-annual monitoring events (April), and for e and f during the annual monitoring event (October). The analytical results of the groundwater and surface water samples are tabulated in Tables 1 thorough 10.

3.0 Monitoring Well Maintenance and Performance Evaluation

SE evaluated water levels in the monitoring wells using the data obtained during the current annual sampling event and previous sampling events. This evaluation indicates that depth to water in monitoring wells is consistent. Measurements taken between 1997 and 2003 indicate that all wells are intact and capable of measuring the required parameters. A Table showing the monitoring well location and the respective aquifers is indicated below.

Monitoring Well Locations and the Respective Aquifers

| | |
|---|--|
| Upgradient Wells | MW-92-1, MW-92-2, MW-92-1R |
| Downgradient Wells | MW-92-4, MW-92-5, MW-92-6, MW-92-7 |
| Crossgradient Well | MW-92-3 |
| Upper Aquifer Wells (Monitoring wells are at shallow depth) | MW-92-1, MW-92-1R, MW-92-3, MW-92-4, MW-92-6 |
| Lower Aquifer Wells (Monitoring wells are at deeper depth) | MW-92-2, MW-92-5, MW-92-7 |

The IDNR letter dated January 4, 2000 required installation of an upgradient well to monitor for Trichloroethylene. A monitoring well (MW-92-1R) was installed to the south of MW-92-1 in March of 2000.

4.0 Methods of Statistical Analysis

SE personnel collected groundwater samples from 8 monitoring wells (MW-92-1, through MW-92-7, and MW-92-1R) and a surface water body (SW-1). The samples were collected according to the protocols set forth in the HMSP and sent to a certified laboratory for analysis of the proper parameters.

Keystone Laboratories of Newton, Iowa conducted the laboratory analyses of groundwater and surface water samples. After receiving the results of the laboratory analyses, SE personnel conducted statistical analysis on the groundwater monitoring data to evaluate the impact of the landfill on the groundwater quality. The mean and standard deviation of each parameter for upgradient monitoring points were calculated as required in Subrule 567-103.2 (6) of the IAC.

After entering the laboratory results and field measurements into a spreadsheet, the following formula was used to calculate the standard deviation:

$$s = \left(\sum \frac{(x - M)^2}{n-1} \right)^{1/2}$$

Where:

s = sample standard deviation
x = individual data
M = sample mean
n = number of data points in set

The downgradient control limits were calculated separately for the upper and lower aquifers. The results of the statistical evaluation are indicated in Tables 12 through 15.

5.0 Discussion of Statistical Evaluation

SE did not conduct a statistical evaluation of chemicals, which were always below the laboratory detection limits. The details of the statistical evaluation exceedences are tabulated in Table 12 through 15. Specific information included in these Tables is indicated below:

- Table 12 indicates the contaminants, which exceeded upgradient mean +2(standard deviation) in the upper aquifer (monitoring wells are shallow).
- Table 13 indicates the contaminants, which exceeded both action level and upgradient mean +2(standard deviation) in the upper aquifer.
- Table 14 indicates the contaminants, which exceeded upgradient mean +2(standard deviation) in the lower aquifer (monitoring wells are deep).
- Table 13 indicates surface water sampling results that exceeded action levels

5.1 Methane monitoring: SE personnel conducted methane monitoring along the landfill boundary and fill area. Table 16 indicates the monitoring results from January 2001 through April 2002. A map indicating the location of methane sampling is attached to Appendix 2. Non-detectable concentrations of methane were recorded during this period.

Shekar Engineering requested IDNR for a variance to terminate methane monitoring. The IDNR approved (May 20, 2002) Amendment #4 to the permit and allowed termination of methane monitoring.

6.0 Recommendation

Shekar Engineering recommends continued site monitoring in accordance with the approved Hydrologic Monitoring System Plan.

TABLES

TABLE 1: GROUNDWATER ANALYTICAL RESULTS (MW-92-1)

| Boring / Well Number | MCL or Action Level | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 |
|---|---------------------|---------|---------|----------|---------|---------|---------|---------|----------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 4/25/00 | 10/25/00 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 18.13 | 16.55 | 18.88 | 19.28 | 15.57 | 19.06 | 21.53 | 21.06 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | 6.4 | 3 | 6 | 6.9 | NT | 6.3 | 9.7 | 20 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | NT | <0.001 | NT | NT |
| Barium, dissolved (mg/L) | 2 | 0.091 | 0.089 | 0.085 | 0.098 | NT | 0.085 | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | NT | <0.001 | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | 0.102 | <0.03 | <0.03 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 | NT | NT |
| Magnesium, dissolved (mg/L) | NA | 46.7 | 46.9 | 43.3 | 45 | NT | 42.1 | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 | NT | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Chloride (mg/L) | 250 | 40 | 49 | 41 | 44 | 49 | 34 | 37 | 41 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | 1.9 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | <0.1 | NT | <0.1 | NT | <0.1 |
| Total Organic Halogens (TOX) (mg/L) | none | NT | NT | NT | 0.05 | NT | 0.07 | NT | 0.07 |

NT = Not Tested

TABLE 1 Continued: GROUNDWATER ANALYTICAL RESULTS (MW-92-1)

| Boring / Well Number | MCL or Action Level | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 | MW-92-1 |
|---|---------------------|---------|----------|---------|----------|---------|----------|---------|---------|
| Date Sampled | NA | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 | | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 19.04 | 19.57 | 20.85 | 19.70 | 20.69 | 20.02 | | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | 4.4 | 4.8 | 5.9 | 6.8 | 7.3 | 7.0 | | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | | |
| Iron, dissolved (mg/L) | 0.3 | 0.368 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | 14 | <10 | 17 | <10 | | |
| Chloride (mg/L) | 250 | 49 | 38 | 39 | 53 | 40 | 32 | | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | | |
| Phenols, total (mg/L) | 4 | NT | <0.1 | NT | <0.1 | NT | <0.1 | | |
| Total Organic Halogens (TOX) (mg/L) | none | NT | 0.053 | NT | 0.107 | NT | 0.051 | | |

NT = Not Tested

TABLE 2: GROUNDWATER ANALYTICAL RESULTS (MW-92-1R)

| Boring / Well Number | MCL or Action Level | MW-92-1R | MW-92-1R | MW-92-1R | MW-92-1R (Duplicate) | MW-92-1R | MW-92-1R | MW-92-1R | MW-92-1R |
|---|---------------------|----------|----------|----------|----------------------|----------|----------|----------|----------|
| Date Sampled | NA | 4/25/00 | 7/31/00 | 10/25/00 | 10/25/00 | 1/12/01 | 4/30/01 | 10/29/01 | 4/26/02 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 19.54 | 18.53 | 19.96 | 19.96 | 15.17 | 12.34 | 13.23 | 14.42 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | <2 | NT | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | <2 | NT | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | <0.8 | NT | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | <2 | NT | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <2 | NT | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | <0.6 | NT | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <2 | <1 | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | NT | NT | NT |
| Barium, dissolved (mg/L) | 2 | 0.1 | 0.175 | 0.25 | 0.024 | 0.022 | NT | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | NT | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | NT | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | 0.066 | 0.066 | <0.03 | <0.03 | 0.086 | 0.03 | <0.03 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NT | NT | NT |
| Magnesium, dissolved (mg/L) | NA | 77.3 | 83.6 | 83.2 | 85 | 72.5 | NT | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | NT | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | 12 | 21 | <10 | <10 | <10 | <10 | <10 | 11 |
| Chloride (mg/L) | 250 | 82 | 132 | 68 | 65 | 47 | 68 | 49 | 67 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | NT | <0.1 | NT |
| Total Organic Halogens (TOX) (mg/L) | none | 0.06 | NT | 0.06 | 0.05 | 0.05 | NT | 0.020 | NT |

NT = Not Tested.

TABLE 2: GROUNDWATER ANALYTICAL RESULTS (MW-92-1R)

| Boring / Well Number | MCL or Action Level | MW-92-1R | MW-92-1R | MW-92-1R (Duplicate) | MW-92-1R | MW-92-1R | MW-92-1R | MW-92-1R | MW-92-1R |
|---|---------------------|----------|----------|----------------------|----------|----------|----------|----------|----------|
| Date Sampled | NA | 10/31/02 | 4/24/03 | 4/24/03 | 10/30/03 | | | | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 13.27 | 14.15 | 14.15 | 13.65 | | | | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | | | | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | | | | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | | | | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | | | | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | | | | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | | | | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | | | | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | | | | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | | | | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | | | | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | | | | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | | | | |
| Iron, dissolved (mg/L) | 0.3 | 0.03 | <0.03 | <0.03 | <0.03 | | | | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | | | | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | | | | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | | | | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | | | | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | <10 | | | | |
| Chloride (mg/L) | 250 | 79 | 89 | 96 | 68 | | | | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | | | | |
| Phenols, total (mg/L) | 4 | <0.1 | NT | NT | <0.1 | | | | |
| Total Organic Halogens (TOX) (mg/L) | none | 0.028 | NT | NT | 0.026 | | | | |

NT = Not Tested.

TABLE 3: GROUNDWATER ANALYTICAL RESULTS (MW-92-2)

| Boring / Well Number | MCL or Action Level | MW-92-2 | MW-92-2 | Duplicate (MW-92-2) | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 |
|---|---------------------|---------|---------|---------------------|----------|---------|---------|---------|---------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 7/28/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 4/25/00 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 18.80 | 17.07 | 17.07 | 19.57 | 19.98 | 16.24 | 19.76 | 22.20 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | NT | <1 | 5.3 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | NT | <0.001 | NT |
| Barium, dissolved (mg/L) | 2 | 0.139 | 0.101 | 0.1 | 0.113 | 0.145 | NT | 0.112 | NT |
| Cadmium, dissolved (mg/L) | 0.005 | 0.002 | 0.001 | 0.001 | <0.001 | <0.001 | NT | <0.001 | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT |
| Iron, dissolved (mg/L) | 0.3 | 8.72 | 0.053 | 0.122 | 2.76 | 9.7 | 8.35 | 8.37 | 0.56 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 | NT |
| Magnesium, dissolved (mg/L) | NA | 48.5 | 46.5 | 48.1 | 46.8 | 49 | NT | 41.6 | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | <0.03 | <0.047 | 0.03 | <0.03 | NT | <0.03 | NT |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Chloride (mg/L) | 250 | 79 | 77 | 76 | 68 | 82 | 81.2 | 80 | 27 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | NT | <0.1 | NT | <0.1 | NT |
| Total Organic Halogens (TOX) mg/L | none | NT | NT | NT | NT | <0.01 | NT | 0.01 | NT |

NT = Not Tested

TABLE 3 Continued: GROUNDWATER ANALYTICAL RESULTS (MW-92-2)

| Boring / Well Number | MCL or Action Level | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 | MW-92-2 |
|---|---------------------|---------|----------|---------|----------|---------|----------|---------|----------|
| Date Sampled | NA | 7/31/00 | 10/25/00 | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 20.49 | 21.75 | 19.71 | 20.25 | 21.51 | 20.51 | 21.37 | 20.69 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | 3.8 | 4.6 | <1 | <1 | <1 | <1 | 6.9 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | NT | NT |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | NT | NT |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | NT | <0.03 | 7.06 | 8.06 | 7.62 | 6.33 | <0.03 | 6.29 |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | NT | NT |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | NT | NT |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | NT | <10 | <10 | <10 | <10 | 11 | 18 | <10 |
| Chloride (mg/L) | 250 | NT | 51 | 68 | 69 | 62 | 71 | 36 | 70 |
| Nitrogen, Ammonia (mg/L) | NA | NT | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | <0.1 | NT | <0.1 | NT | <0.1 | NT | <0.1 |
| Total Organic Halogens (TOX) (mg/L) | none | NT | 0.03 | NT | 0.020 | NT | 0.019 | NT | <0.010 |

NT = Not Tested

TABLE 4: GROUNDWATER ANALYTICAL RESULTS (MW-92-3)

| Boring / Well Number | MCL or Action Level | MW-92-3 | MW-92-3 | MW-92-3 | MW-92-3 | MW-92-3 Duplicate | MW-92-3 | MW-92-3 | MW-92-3 |
|---|---------------------|---------|---------|----------|---------|-------------------|---------|----------|---------|
| Date Sampled | NA | 4/25/00 | 7/31/00 | 10/25/00 | 1/12/01 | 1/12/01 | 4/30/01 | 10/29/01 | 4/26/02 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 20.10 | 18.03 | 23.45 | 23.66 | 23.66 | 20.00 | 22.04 | 22.89 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | <1 | NT | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | <1 | NT | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | NT | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | <1 | NT | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | NT | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | NT | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 | NT | NT | NT |
| Barium, dissolved (mg/L) | 2 | 0.087 | 0.111 | 0.081 | 0.054 | 0.052 | NT | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | NT | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | NT | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | 0.026 | 0.026 | <0.03 | <0.03 | 0.046 | <0.03 | <0.03 | <0.03 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NT | NT | NT |
| Magnesium, dissolved (mg/L) | NA | 37.8 | 35.2 | 30.7 | 33.3 | 32.8 | NT | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | NT | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | <10 | 20 | <10 | <10 | <10 | <10 | <10 | 11 |
| Chloride (mg/L) | 250 | 61 | 11 | 41 | 50 | 45 | 26 | 40 | 55 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | NT | <0.1 | NT |
| Total Organic Halogens (TOX) (mg/L) | none | 0.06 | NT | 0.04 | 0.03 | 0.03 | NT | 0.017 | NT |

NT = Not Tested

TABLE 4: GROUNDWATER ANALYTICAL RESULTS (MW-92-3)

| Boring / Well Number | MCL or Action Level | MW-92-3 | MW-92-3 | MW-92-3 | MW-92-3 Duplicate | MW-92-3 | MW-92-3 | MW-92-3 | MW-92-3 |
|---|---------------------|----------|---------|----------|-------------------|---------|---------|---------|---------|
| Date Sampled | NA | 10/31/02 | 4/24/03 | 10/30/03 | 10/30/03 | | | | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 21.89 | 22.54 | 22.29 | 22.29 | | | | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | | | | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | | | | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | | | | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | | | | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | | | | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | | | | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | | | | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | | | | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | | | | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | | | | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | | | | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | | | | |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | <0.03 | <0.03 | <0.03 | | | | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | | | | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | | | | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | | | | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | | | | |
| Chemical Oxygen Demand (mg/L) | NA | 14 | <10 | 22 | <10 | | | | |
| Chloride (mg/L) | 250 | 45 | 58 | 44 | 39 | | | | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | | | | |
| Phenols, total (mg/L) | 4 | <0.1 | NT | <0.1 | <0.1 | | | | |
| Total Organic Halogens (TOX) (mg/L) | none | 0.042 | NT | 0.017 | 0.015 | | | | |

NT = Not Tested

TABLE 5: GROUNDWATER ANALYTICAL RESULTS (MW-92-4)

| Boring / Well Number | MCL or Action Level | MW-92-4 | MW-92-4 | MW-92-4 | MW-92-4 | Mw-92-4 | MW-92-4 | MW-92-4 (Duplicate) | MW-92-4 |
|---|---------------------|---------|---------|----------|---------|---------|---------|---------------------|---------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 3/23/99 | 4/25/00 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 21.28 | 20.31 | 23.30 | 23.47 | 20.24 | 23.00 | 23.00 | 25.73 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | NT | <1 | <1 | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | NT | <1 | <1 | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 | <0.4 | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | NT | <1 | <1 | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | <1 | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 | <0.3 | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | 0.001 | NT | <0.001 | <0.001 | NT |
| Barium, dissolved (mg/L) | 2 | 0.042 | 0.035 | 0.037 | 0.04 | NT | 0.05 | 0.053 | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | NT | <0.001 | <0.001 | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | <0.03 | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | <0.03 | NT |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | <0.03 | 0.046 | 0.072 | 0.317 | <0.03 | <0.03 | 0.106 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 | <0.005 | NT |
| Magnesium, dissolved (mg/L) | NA | 34.4 | 31.9 | 31.5 | 29 | NT | 25.7 | 25.7 | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 | <0.0005 | NT |
| Zinc, dissolved (mg/L) | 5 | 0.032 | 0.046 | <0.03 | <0.03 | NT | <0.03 | <0.03 | NT |
| Chemical Oxygen Demand (mg/L) | NA | 14 | <10 | <10 | 23 | 14 | <10 | <10 | <10 |
| Chloride (mg/L) | 250 | 53 | 47 | 58 | 80 | 80.1 | 52 | 48 | 40 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | NT | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | <0.1 | NT | <0.1 | <0.1 | NT |
| Total Organic Halogens (TOX) (mg/L) | none | NT | NT | NT | 0.06 | NT | 0.11 | 0.06 | NT |

NT = Not Tested

TABLE 5 Continued: GROUNDWATER ANALYTICAL RESULTS (MW-92-4)

| Boring / Well Number | MCL or Action Level | MW-92-4 | MW-92-4 | MW-92-4 | MW-92-4 | Mw-92-4 | MW-92-4 | MW-92-4 | MW-92-4 |
|---|---------------------|----------|---------|----------|---------|----------|---------|----------|---------|
| Date Sampled | NA | 10/25/00 | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 25.32 | 21.70 | 23.93 | 24.76 | 23.80 | 24.32 | 24.13 | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | NT | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | NT | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | NT | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | NT | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | NT | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | NT | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | NT | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | NT | |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | 0.054 | 0.242 | 0.049 | <0.03 | <0.03 | <0.03 | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | NT | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | NT | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | NT | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | <10 | 20 | 24 | 24 | |
| Chloride (mg/L) | 250 | 58 | 49 | 63 | 75 | 102 | 64 | 117 | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Phenols, total (mg/L) | 4 | <0.1 | NT | <0.1 | NT | <0.1 | NT | <0.1 | |
| Total Organic Halogens (TOX) (mg/L) | none | 0.07 | NT | <0.01 | NT | 0.024 | NT | <0.05 | |

NT = Not Tested

TABLE 6: GROUNDWATER ANALYTICAL RESULTS (MW-92-5)

| Boring / Well Number | MCL or Action Level | MW-92-5 | MW-92-5 | MW-92-5 | Duplicate MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 |
|---|---------------------|---------|---------|----------|-------------------|---------|---------|---------|---------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 10/20/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 4/25/00 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 21.48 | 20.45 | 23.40 | 23.40 | 23.68 | 20.46 | 23.17 | 25.96 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | NT | <1 | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | NT | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | NT | <0.001 | NT |
| Barium, dissolved (mg/L) | 2 | 0.09 | 0.073 | 0.09 | 0.09 | 0.104 | NT | 0.19 | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | NT | <0.001 | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT |
| Iron, dissolved (mg/L) | 0.3 | 8.14 | <0.03 | 6.65 | 6.54 | 9.06 | 8.5 | 7.86 | 3.2 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 | NT |
| Magnesium, dissolved (mg/L) | NA | 49 | 47.6 | 47.6 | 46.8 | 50 | NT | 47.4 | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | 0.083 | <0.03 | 0.032 | <0.03 | NT | <0.03 | NT |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Chloride (mg/L) | 250 | 69 | 75 | 78 | 78 | 85 | 75 | 64 | 58 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | NT | <0.1 | NT | <0.1 | NT |
| Total Organic Halogens (TOX) (mg/L) | none | NT | NT | NT | NT | <0.01 | NT | 0.02 | NT |

NT = Not Tested

TABLE 6 Continued: GROUNDWATER ANALYTICAL RESULTS (MW-92-5)

| Boring / Well Number | MCL or Action Level | MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 | MW-92-5 |
|---|---------------------|----------|---------|----------|---------|----------|---------|----------|---------|
| Date Sampled | NA | 10/25/00 | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 25.55 | 21.94 | 24.18 | 25.00 | 24.03 | 24.63 | 24.39 | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | NT | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | NT | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | NT | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | NT | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | NT | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | NT | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | NT | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | NT | |
| Iron, dissolved (mg/L) | 0.3 | 7.32 | 7.62 | 7.72 | 7.13 | 3.10 | 0.824 | <0.03 | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | NT | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | NT | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | NT | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | <10 | 11 | <10 | <10 | |
| Chloride (mg/L) | 250 | 63 | 68 | 74 | 61 | 69 | 71 | 66 | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Phenols, total (mg/L) | 4 | <0.1 | NT | <0.1 | NT | <0.1 | NT | <0.1 | |
| Total Organic Halogens (TOX) (mg/L) | none | 0.02 | NT | <0.010 | NT | 0.021 | NT | 0.108 | |

NT = Not Tested

TABLE 7: GROUNDWATER ANALYTICAL DATA (MW-92-6)

| Boring / Well Number | MCL or Action Level | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 |
|---|---------------------|---------|---------|----------|---------|---------|---------|---------|----------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 4/25/00 | 10/25/00 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 20.22 | 19.12 | 21.05 | 22.30 | 17.61 | 21.74 | 27.96 | 27.47 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | 0.001 | 0.009 | 0.014 | 0.005 | NT | <0.001 | NT | NT |
| Barium, dissolved (mg/L) | 2 | 0.075 | 0.034 | 0.03 | 0.069 | NT | 0.098 | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | NT | <0.001 | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | 0.179 | 0.235 | 0.113 | 4.12 | <0.03 | 0.051 | 0.358 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 | NT | NT |
| Magnesium, dissolved (mg/L) | NA | 30.7 | 14 | 2.23 | 7.3 | NT | 27.9 | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 | NT | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | 0.031 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | 15 | <10 | 36 | 26 | <10 | 19.4 | <10 | 22 |
| Chloride (mg/L) | 250 | 91 | 88 | 155 | 142 | 54 | 100 | 120 | 119 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | 3.2 | 1.1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | <0.1 | NT | <0.1 | NT | <0.1 |
| Total Organic Halogens (TOX) (mg/L) | none | NT | NT | NT | 0.02 | NT | <0.01 | NT | 0.04 |

NT = Not Tested

TABLE 7 Continued: GROUNDWATER ANALYTICAL DATA (MW-92-6)

| Boring / Well Number | MCL or Action Level | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 | MW-92-6 Duplicate | MW-92-6 | MW-92-6 | MW-92-6 |
|---|---------------------|---------|----------|---------|----------|-------------------|---------|----------|---------|
| Date Sampled | NA | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 10/31/02 | 4/24/03 | 10/30/03 | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 23.90 | 27.32 | 26.94 | 25.96 | 25.96 | 26.54 | 26.31 | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | NT | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | NT | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | NT | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | NT | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | NT | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | NT | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | NT | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | NT | |
| Iron, dissolved (mg/L) | 0.3 | 0.247 | 0.069 | 0.154 | 0.199 | 0.159 | 0.933 | 0.075 | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | NT | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | NT | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | NT | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | NT | |
| Chemical Oxygen Demand (mg/L) | NA | 12 | <10 | 15 | 14 | 21 | 15 | 14 | |
| Chloride (mg/L) | 250 | 135 | 117 | 110 | 126 | 127 | 129 | 113 | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Phenols, total (mg/L) | 4 | NT | <0.1 | NT | <0.1 | <0.1 | NT | <0.1 | |
| Total Organic Halogens (TOX) (mg/L) | none | NT | <0.01 | NT | 0.023 | 0.033 | NT | <0.01 | |

NT = Not Tested

TABLE 8: GROUNDWATER ANALYTICAL RESULTS (MW-92-7)

| Boring / Well Number | MCL or Action Level | MW-92-7 | Duplicate MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 (duplicate) | MW-92-7 | MW-92-7 |
|---|---------------------|---------|-------------------|---------|----------|---------|---------------------|---------|---------|
| Date Sampled | NA | 4/2/97 | 4/2/97 | 7/28/97 | 10/20/97 | 1/28/98 | 1/28/98 | 9/10/98 | 3/23/99 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 22.2 | 22.2 | 19.20 | 22.15 | 22.36 | 22.36 | 19.16 | 21.92 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | <1 | <1 | NT | <1 |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | <1 | <1 | NT | <1 |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | <1 | <1 | NT | <1 |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | NT | <1 |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | NT | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | NT | <0.001 |
| Barium, dissolved (mg/L) | 2 | 0.15 | 0.149 | 0.088 | 0.12 | 0.163 | 0.167 | NT | 0.164 |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | NT | <0.001 |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 |
| Iron, dissolved (mg/L) | 0.3 | 7.51 | 7.54 | 0.036 | 0.059 | 8.11 | 8.27 | 4.12 | 6.52 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 |
| Magnesium, dissolved (mg/L) | NA | 57 | 56.8 | 32.5 | 43.8 | 60 | 61 | NT | 55.7 |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 |
| Zinc, dissolved (mg/L) | 5 | <0.03 | 0.03 | 0.072 | <0.03 | <0.03 | <0.03 | NT | <0.03 |
| Chemical Oxygen Demand (mg/L) | NA | 19 | 18 | <10 | <10 | <10 | <10 | <10 | <10 |
| Chloride (mg/L) | 250 | 51 | 51 | 98 | 72 | 21 | 50 | 54 | 57 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | NT | <0.1 | <0.1 | NT | <0.1 |
| Total Organic Halogens (TOX) (mg/L) | none | NT | NT | NT | NT | 0.02 | 0.01 | NT | 0.03 |

NT = Not Tested

TABLE 8 Continued: GROUNDWATER ANALYTICAL RESULTS (MW-92-7)

| Boring / Well Number | MCL or Action Level | MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 | MW-92-7 |
|---|---------------------|---------|----------|---------|----------|---------|----------|---------|----------|
| Date Sampled | NA | 4/25/00 | 10/25/00 | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | 28.15 | 27.66 | 24.00 | 26.28 | 27.10 | 26.10 | 26.70 | 26.49 |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | NT | NT |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | NT | NT |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | 3.23 | 6.82 | 7.24 | 8.21 | 6.33 | 5.24 | 6.24 | 5.96 |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | NT | NT |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | NT | NT |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | 14 | 11 | 14 | 25 | 12 |
| Chloride (mg/L) | 250 | 41 | 46 | 39 | 52 | 52 | 58 | 58 | 51 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | <0.1 | NT | <0.1 | NT | <0.1 | NT | <0.1 |
| Total Organic Halogens (TOX) (mg/L) | none | NT | 0.01 | NT | 0.016 | NT | 0.022 | NT | 0.023 |

NT = Not Tested

TABLE 9: GROUNDWATER ANALYTICAL RESULTS (SURFACE WATER BODY)

| Boring / Well Number | MCL or Action Level | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 |
|---|---------------------|---------|---------|----------|---------|---------|---------|---------|----------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 4/25/00 | 10/25/00 |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | | | | | | | | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | <0.4 | NT | <0.4 | NT | NT |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | NT | NT |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | <0.3 | NT | <0.3 | NT | NT |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | NT | <1 | <1 | <1 |
| Arsenic, dissolved (mg/L) | 0.05 | 0.0013 | 0.002 | 0.0029 | 0.003 | NT | <0.001 | NT | NT |
| Barium, dissolved (mg/L) | 2 | 0.11 | 0.05 | 0.099 | 0.076 | NT | 0.048 | NT | NT |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | <0.001 | NT | 0.004 | NT | NT |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | <0.03 | NT | <0.03 | NT | NT |
| Iron, dissolved (mg/L) | 0.3 | 0.033 | 0.035 | <0.03 | <0.035 | <0.03 | 0.052 | <0.03 | <0.03 |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | <0.005 | NT | <0.005 | NT | NT |
| Magnesium, dissolved (mg/L) | NA | 0.68 | 4 | 0.25 | 0.3 | NT | 2.06 | NT | NT |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | NT | <0.0005 | NT | NT |
| Zinc, dissolved (mg/L) | 5 | <0.03 | 0.031 | 0.033 | <0.03 | NT | <0.03 | NT | NT |
| Chemical Oxygen Demand (mg/L) | NA | 27 | 21 | 11 | 27 | <10 | 10.5 | <10 | 18 |
| Chloride (mg/L) | 250 | 54 | 52 | 51 | 56 | 47.5 | 51 | 46 | 41 |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenols, total (mg/L) | 4 | NT | NT | NT | <0.1 | NT | <0.1 | NT | <0.1 |
| Total Organic Halogens (TOX) (mg/L) | none | NT | NT | NT | 0.02 | NT | 0.02 | NT | 0.02 |

NT = Not Tested

TABLE 9 Continued: GROUNDWATER ANALYTICAL RESULTS (SURFACE WATER BODY)

| Boring / Well Number | MCL or Action Level | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 |
|---|---------------------|---------|----------|---------|----------|---------|----------|------|------|
| Date Sampled | NA | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 | | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | | | | | | | | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | | |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | <0.03 | <0.03 | 0.032 | <0.03 | <0.03 | | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | 11 | 23 | 29 | 15 | | |
| Chloride (mg/L) | 250 | <10 | 48 | 44 | 45 | 51 | 47 | | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | | |
| Phenols, total (mg/L) | 4 | NT | <0.1 | NT | <0.1 | NT | <0.1 | | |
| Total Organic Halogens (TOX) (mg/L) | none | NT | <0.010 | NT | 0.015 | NT | <0.01 | | |

NT = Not Tested

TABLE 9 Continued: GROUNDWATER ANALYTICAL RESULTS (SURFACE WATER BODY)

| Boring / Well Number | MCL or Action Level | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 | SW-1 |
|---|---------------------|---------|----------|---------|----------|---------|----------|------|------|
| Date Sampled | NA | 4/30/01 | 10/29/01 | 4/26/02 | 10/31/02 | 4/24/03 | 10/30/03 | | |
| Elevations - Ground Surface | NA | | | | | | | | |
| - Top of Screen | NA | | | | | | | | |
| - Static Groundwater | NA | | | | | | | | |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | NT | NT | NT | NT | NT | NT | | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | NT | NT | NT | NT | NT | NT | | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | NT | NT | NT | NT | NT | NT | | |
| Benzene ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | NT | NT | NT | NT | NT | NT | | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | <1 | <1 | <1 | | |
| Arsenic, dissolved (mg/L) | 0.05 | NT | NT | NT | NT | NT | NT | | |
| Barium, dissolved (mg/L) | 2 | NT | NT | NT | NT | NT | NT | | |
| Cadmium, dissolved (mg/L) | 0.005 | NT | NT | NT | NT | NT | NT | | |
| Chromium, dissolved (mg/L) | 0.1 | NT | NT | NT | NT | NT | NT | | |
| Copper, dissolved (mg/L) | 1 | NT | NT | NT | NT | NT | NT | | |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | <0.03 | <0.03 | 0.032 | <0.03 | <0.03 | | |
| Lead, dissolved (mg/L) | 0.015 | NT | NT | NT | NT | NT | NT | | |
| Magnesium, dissolved (mg/L) | NA | NT | NT | NT | NT | NT | NT | | |
| Mercury, dissolved (mg/L) | 0.002 | NT | NT | NT | NT | NT | NT | | |
| Zinc, dissolved (mg/L) | 5 | NT | NT | NT | NT | NT | NT | | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | 11 | 23 | 29 | 15 | | |
| Chloride (mg/L) | 250 | <10 | 48 | 44 | 45 | 51 | 47 | | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | <1 | <1 | <1 | | |
| Phenols, total (mg/L) | 4 | NT | <0.1 | NT | <0.1 | NT | <0.1 | | |
| Total Organic Halogens (TOX) (mg/L) | none | NT | <0.010 | NT | 0.015 | NT | <0.01 | | |

NT = Not Tested

TABLE 10: GROUNDWATER ANALYTICAL RESULTS (TRIP BLANK)

| Boring / Well Number | MCL or Action Level | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank |
|--|---------------------|------------|------------|------------|---------------|------------|---------------|------------|---------------|
| Date Sampled | NA | 4/2/97 | 7/28/97 | 10/20/97 | 1/28/98 | 9/10/98 | 3/23/99 | 4/25/00 | 10/25/00 |
| Elevations - Ground Surface - Top of Screen - Static Groundwater | NA NA NA | | | | Not Collected | | Not Collected | | Not Collected |
| 1,1,1-Trichloroethane ($\mu\text{g/L}$) | 200 | <1 | <1 | <1 | | NT | | <1 | |
| 1,1-Dichloroethane ($\mu\text{g/L}$) | NA | <1 | <1 | <1 | | NT | | <1 | |
| 1,2-Dichloroethane ($\mu\text{g/L}$) | 5 | <0.4 | <0.4 | <0.4 | | NT | | <0.4 | |
| 1,4-Dichlorobenzene ($\mu\text{g/L}$) | 600 | <1 | <1 | <1 | | NT | | <1 | |
| Benzene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | | NT | | <1 | |
| Carbon Tetrachloride ($\mu\text{g/L}$) | 5 | <0.3 | <0.3 | <0.3 | | NT | | <0.3 | |
| Trichloroethylene ($\mu\text{g/L}$) | 5 | <1 | <1 | <1 | | NT | | <1 | |
| Arsenic, dissolved (mg/L) | 0.05 | <0.001 | <0.001 | <0.001 | | NT | | <0.001 | |
| Barium, dissolved (mg/L) | 2 | <0.01 | <0.01 | <0.01 | | NT | | <0.01 | |
| Cadmium, dissolved (mg/L) | 0.005 | <0.001 | <0.001 | <0.001 | | NT | | <0.001 | |
| Chromium, dissolved (mg/L) | 0.1 | <0.03 | <0.03 | <0.03 | | NT | | <0.03 | |
| Copper, dissolved (mg/L) | 1 | <0.03 | <0.03 | <0.03 | | NT | | <0.03 | |
| Iron, dissolved (mg/L) | 0.3 | <0.03 | <0.03 | <0.03 | | <0.03 | | <0.03 | |
| Lead, dissolved (mg/L) | 0.015 | <0.005 | <0.005 | <0.005 | | NT | | <0.005 | |
| Magnesium, dissolved (mg/L) | NA | <0.1 | <0.1 | <0.1 | | NT | | <0.1 | |
| Mercury, dissolved (mg/L) | 0.002 | <0.0005 | <0.0005 | <0.0005 | | NT | | <0.0005 | |
| Zinc, dissolved (mg/L) | 5 | <0.03 | <0.03 | <0.03 | | NT | | <0.03 | |
| Chemical Oxygen Demand (mg/L) | NA | <10 | <10 | <10 | | <10 | | <10 | |
| Chloride (mg/L) | 250 | <10 | <10 | <10 | | <10 | | <10 | |
| Nitrogen, Ammonia (mg/L) | NA | <1 | <1 | <1 | | <1 | | <1 | |
| Phenols, total (mg/L) | 4 | NT | NT | NT | | NT | | <0.1 | |
| Total Organic Halogens (TOX) (mg/L) | None | NT | NT | NT | | NT | | <0.001 | |

NT = Not Tested

TABLE 11: STATIC GROUNDWATER LEVELS

| Boring / Well Number | Static Water Levels | Static Water Level |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Date | 4/2/97 | 5/12/97 | 6/30/97 | 7/28/97 | 8/19/97 | 9/8/97 | 10/20/97 | 11/97 | 12/1/97 | 1/28/98 |
| MW-92-1 | 18.13 | 16.98 | 17.03 | 16.55 | 17.00 | 17.78 | 18.88 | Not taken | 19.05 | 19.28 |
| MW-92-2 | 18.80 | 17.69 | 17.81 | 17.07 | 17.70 | 18.46 | 19.57 | Not taken | 19.73 | 19.98 |
| MW-92-3 | NA | Not taken | NA | NA |
| MW-92-4 | 21.28 | 20.06 | 20.63 | 20.31 | 21.20 | 22.09 | 23.30 | Not taken | 23.44 | 23.47 |
| MW-92-5 | 21.48 | 20.26 | 20.81 | 20.45 | 21.40 | 22.34 | 23.40 | Not taken | 23.60 | 23.68 |
| MW-92-6 | 20.22 | 19.06 | 19.52 | 19.12 | 19.99 | 20.94 | 21.05 | Not taken | 22.20 | 22.30 |
| MW-92-7 | 22.20 | 19.05 | 19.89 | 19.20 | 20.09 | 21.02 | 22.15 | Not taken | 22.35 | 22.36 |
| L-1 | Dry | Not taken | Dry | Dry |
| L-2 | Dry | Not taken | Dry | Dry |
| | | | | | | | | | | |

| Boring / Well Number | Static Water Levels | Static Water Level |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Date | 9/10/98 | 3/23/99 | 4/25/00 | 7/31/00 | 10/25/00 | 1/12/01 | 2/12/01 | 3/29/01 | 4/30/01 | 5/25/01 |
| MW-92-1 | 15.57 | 19.06 | 21.53 | NA | 21.06 | NA | NA | NA | 19.04 | NA |
| MW-92-1R | NA | NA | 19.54 | 18.53 | 19.96 | 15.17 | 14.1 | 13.82 | 12.34 | 12.20 |
| MW-92-2 | 16.24 | 19.76 | 22.20 | 20.49 | 21.75 | NA | NA | NA | 19.71 | NA |
| MW-92-3 | NA | NA | 20.10 | 18.03 | 23.45 | 23.66 | 23.08 | 21.63 | 20.00 | 19.84 |
| MW-92-4 | 20.24 | 23.00 | 25.73 | NA | 25.32 | NA | NA | NA | 21.70 | NA |
| MW-92-5 | 20.46 | 23.17 | 25.96 | NA | 25.55 | NA | NA | NA | 21.94 | NA |
| MW-92-6 | 17.61 | 21.74 | 27.96 | NA | 27.47 | NA | NA | NA | 23.90 | NA |
| MW-92-7 | 19.16 | 21.92 | 28.15 | NA | 27.66 | NA | NA | NA | 24.00 | NA |
| L-1 | Dry | NA | Dry | NA | Dry | NA | NA | NA | NA | NA |
| L-2 | Dry | NA | Dry | NA | Dry | NA | NA | NA | NA | NA |

NA = Not Available

TABLE 11 Continued: STATIC GROUNDWATER LEVELS

| Boring / Well Number | Static Water Levels | Static Water Level |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Date | 6/30/01 | 7/31/01 | 8/31/01 | 9/29/01 | 10/29/01 | 11/30/01 | 12/31/01 | 1/31/02 | 4/26/02 | 10/31/02 |
| MW-92-1 | NA | NA | NA | NA | 19.57 | NA | NA | NA | 20.85 | 19.70 |
| MW-92-1R | 11.11 | 10.58 | 11.69 | 12.59 | 13.23 | 13.85 | 14.06 | 14.44 | 14.42 | 13.27 |
| MW-92-2 | NA | NA | NA | NA | 20.25 | NA | NA | NA | 21.51 | 20.51 |
| MW-92-3 | 19.21 | 18.87 | 20.36 | 21.41 | 22.04 | 22.59 | 22.65 | 23.05 | 22.89 | 21.89 |
| MW-92-4 | NA | NA | NA | NA | 23.93 | NA | NA | NA | 24.76 | 23.80 |
| MW-92-5 | NA | NA | NA | NA | 24.18 | NA | NA | NA | 25.00 | 24.03 |
| MW-92-6 | NA | NA | NA | NA | 27.32 | NA | NA | NA | 26.94 | 25.96 |
| MW-92-7 | NA | NA | NA | NA | 26.28 | NA | NA | NA | 27.10 | 26.10 |
| L-1 | NA | NA |
| L-2 | NA | NA |

NA = Not Available

TABLE 11 Continued: STATIC GROUNDWATER LEVELS

| Boring / Well Number | Static Water Levels | Static Water Level |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Date | 4/24/03 | 10/30/03 | | | | | | | | |
| MW-92-1 | 20.69 | 20.02 | | | | | | | | |
| MW-92-1R | 14.15 | 13.65 | | | | | | | | |
| MW-92-2 | 21.37 | 20.69 | | | | | | | | |
| MW-92-3 | 22.54 | 22.29 | | | | | | | | |
| MW-92-4 | 24.32 | 24.13 | | | | | | | | |
| MW-92-5 | 24.63 | 24.39 | | | | | | | | |
| MW-92-6 | 26.54 | 26.31 | | | | | | | | |
| MW-92-7 | 26.70 | 26.49 | | | | | | | | |
| L-1 | NA | NA | | | | | | | | |
| L-2 | NA | NA | | | | | | | | |

NA = Not Available

TABLE 12: UPPER AQUIFER (Monitoring wells are shallow): Upgradient Mean + 2(Standard Deviation)

| Chemical | Upgradient Mean + 2(standard deviation) | Date of exceedence(s) | Monitoring well concentration (mg/L) | |
|--------------------------------------|--|--------------------------|---|---------|
| | | | MW-92-4 | MW-92-6 |
| Zinc | 0.030 | 4/97 | 0.032 | |
| | | 7/97 | 0.046 | 0.031 |
| Chloride | 54.64 | 4/97 | | 61 |
| | | 7/97 | | 88 |
| | | 10/97 | 58 | 155 |
| | | 1/98 | 80 | 142 |
| | | 9/98 | | |
| | | 3/99 | | 100 |
| | | 4/00 | | 120 |
| | | 10/00 | 58 | 119 |
| | | 4/01 | | 135 |
| | | 10/01 | 63 | 117 |
| Nitrogen, Ammonia | 1.59 | 4/02 | 75 | 126 |
| | | 10/02 | 102 | 127 |
| Iron, Dissolved | 0.26 | 10/97 | | 3.2 |
| Chemical O₂ Demand | 15.0 | 9/98 | | 4.12 |
| | | 10/00 | | 0.358 |
| | | 4/03 | | 0.933 |
| Conductance | 1.26 | 4/97 | 14 | 15 |
| | | 10/97 | 36 | |
| | | 1/98 | 23 | 26 |
| | | 9/98 | 14 | |
| | | 3/99 | | 19.4 |
| | | 10/00 | | 22 |
| | | 4/01 | | 12 |
| | | 4/02 | | 14 |
| | | 10/02 | 20 | 21 |
| | | 4/03 | 24 | 15 |
| PH | 8.15 | 10/03 | 24 | |
| | | 9/98 | | 1.50 |
| | | 4/00 | | 1.86 |
| | | 10/00 | | 1.79 |
| | | 4/01 | | 1.83 |
| | | 10/01 | | 1.33 |
| | | 4/02 | | 1.32 |
| | | 10/02 | | 1.52 |
| Temperature | 16.92 | 4/03 | | 1.71 |
| | | 4/97 | | 8.2 |
| | | 10/97 | | 9.9 |
| | | 1/98 | | 8.6 |
| | | 9/98 | | 8.2 |
| | | 4/01 | | 7.8 |
| | | 7/97 | 21.1 | 20 |

TABLE 13: Chemicals exceeding both Action Levels and Upgradient Mean + 2(Standard Deviation)

| Chemical | Date of exceedence(s) | Action Level | Upgradient Mean + 2(standard deviation) | Monitoring well concentration (mg/L) | |
|----------------|-----------------------|---------------------------------|---|--------------------------------------|---------|
| | | | | | MW-92-6 |
| Arsenic | 7/97 | 0.001 | 0.001 | | 0.009 |
| | 10/97 | | | | 0.014 |
| | 1/98 | | | | 0.005 |
| Iron | 9/98 | 0.3 | 0.26 | | 4.12 |
| | 10/00 | | | | 0.358 |
| PH | 10/97 | Upper action level = 8.5 | 8.15 | | 9.9 |
| | 1/98 | | | | 8.6 |

TABLE 14: LOWER AQUIFER (Monitoring wells are deep): Upgradient Mean + 2(Standard Deviation)

| Chemical | Date of exceedence(s) | Upgradient Mean + 2(standard deviation) | Upgradient Mean - 2(standard deviation) | Monitoring well concentration (mg/L) | |
|--------------------------------------|-----------------------|---|---|--------------------------------------|---------|
| | | | | MW-92-5 | MW-92-7 |
| Barium | 1/98 | 0.1599 | | | 0.167 |
| | 3/99 | | | 0.19 | 0.164 |
| Magnesium, Dissolved | 4/97 | 52.8382 | | | 57 |
| | 1/98 | | | | 61 |
| | 3/99 | | | | 55.7 |
| Zinc, Dissolved | 7/97 | 0.0486 | | 0.083 | 0.072 |
| Chemical O₂ Demand | 4/97 | 14.911 | | | 19 |
| | 4/03 | | | | 25 |
| | | | | | |
| | | | | | |
| Conductance | 9/98 | 1.36 | | | 1.5 |
| | 3/99 | | | | 1.43 |

TABLE 15: SURFACE WATER RESULTS EXCEEDING ACTION LEVELS

| Chemical | Date of exceedence(s) | Action Level | SW-1 concentration |
|----------------|-----------------------|---------------------------------|--------------------|
| Arsenic | 4/97 | 0.001 | 0.0013 mg/L |
| | 7/97 | | 0.002 mg/L |
| | 10/97 | | 0.0029 mg/L |
| | 1/98 | | 0.003 mg/L |
| | 9/98 | | 0.003 mg/L |
| PH | 4/97 | Upper action level = 8.5 | 11.4 |
| | 7/97 | Lower action level = 6.5 | 10.1 |
| | 10/97 | | 11.2 |
| | 1/98 | | 11.8 |
| | 9/98 | | 9.5 |
| | 3/99 | | 9.8 |
| | 4/00 | | 9.8 |
| | 4/01 | | 8.7 |
| | 4/02 | | 11.3 |
| | 10/02 | | 11.2 |
| | 4/03 | | 11.3 |
| | 10/03 | | 10.6 |

TABLE 16: METHANE MONITORING RESULTS

| Methane Sampling Location | Methane Reading |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Date | 1/12/01 | 2/12/01 | 3/29/01 | 4/30/01 | 5/25/01 | 6/30/01 | 7/31/01 | 8/31/01 | 9/29/01 | 10/29/01 |
| Location-1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Location-8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Methane Sampling Location | Methane Reading |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Date | 11/30/01 | 12/31/01 | 1/31/02 | 2/25/02 | 3/29/02 | 4/28/02 | | | | |
| Location-1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| Location-8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

MAPS

CONTAMINANT GRAPHS

Upper Aquifer (Monitoring Wells are Shallow) Sampling Result - 1997 to 2003

Arsenic, Dissolved (mg/L)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | <0.001 | | <0.001 | 0.001 |
| Jul-97 | <0.001 | | <0.001 | 0.009 |
| Oct-97 | <0.001 | | <0.001 | 0.014 |
| Jan-98 | <0.001 | | <0.001 | 0.005 |
| Mar-99 | <0.001 | | <0.001 | <0.001 |

Upgradient Mean + 2(Standard Deviation) = 0.0010 Action Level = 0.001 dNRL

Barium, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 0.091 | | 0.042 | 0.075 |
| Jul-97 | 0.089 | | 0.035 | 0.034 |
| Oct-97 | 0.085 | | 0.037 | 0.030 |
| Jan-98 | 0.098 | | 0.04 | 0.069 |
| Mar-99 | 0.085 | | 0.05 | 0.098 |

Upgradient Mean + 2(Standard Deviation) = 0.1003 Action Level = 2 fHAL

Magnesium, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 46.7 | | 34.4 | 30.7 |
| Jul-97 | 46.9 | | 31.9 | 14 |
| Oct-97 | 43 | | 31.5 | 2.23 |
| Jan-98 | 45 | | 29 | 7.3 |
| Mar-99 | 42.1 | | 25.7 | 27.9 |

Upgradient Mean + 2(Standard Deviation) = 48.9952 Action Level = None

Zinc, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | <0.03 | | 0.032 | <0.03 |
| Jul-97 | <0.03 | | 0.046 | 0.031 |
| Oct-97 | <0.03 | | <0.03 | <0.03 |
| Jan-98 | <0.03 | | <0.03 | <0.03 |
| Mar-99 | <0.03 | | <0.03 | <0.03 |

Upgradient Mean + 2(Standard Deviation) = 0.0300 Action Level = 2 fHAL

Trichloroethylene ($\mu\text{g/l}$)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 6.4 | | <1 | <1 |
| Jul-97 | 3 | | <1 | <1 |
| Oct-97 | 6 | | <1 | <1 |
| Jan-98 | 6.9 | | <1 | <1 |
| Mar-99 | 6.3 | | <1 | <1 |
| Apr-00 | 9.7 | | <1 | <1 |
| Oct-00 | 20 | | <1 | <1 |
| Apr-01 | 4.4 | | <1 | <1 |
| Oct-01 | 4.8 | | <1 | <1 |
| Apr-02 | 5.9 | | <1 | <1 |
| Oct-02 | 6.8 | | <1 | <1 |
| Apr-03 | 7.3 | | <1 | <1 |
| Oct-03 | 7 | | | |

Upgradient Mean + 2(Standard Deviation) = **15.5587** Action Level = **3 fHAL**

Trichloroethylene ($\mu\text{g/l}$)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1R | | MW-92-4 | MW-92-6 |
| Apr-97 | | | <1 | <1 |
| Jul-97 | | | <1 | <1 |
| Oct-97 | | | <1 | <1 |
| Jan-98 | | | <1 | <1 |
| Mar-99 | | | <1 | <1 |
| Apr-00 | <1 | | <1 | <1 |
| Jul-00 | <1 | | | |
| Oct-00 | <1 | | <1 | <1 |
| Jan-01 | <2 | | | |
| Apr-01 | <1 | | <1 | <1 |
| Oct-01 | <1 | | <1 | <1 |
| Apr-02 | <1 | | <1 | <1 |
| Oct-02 | <1 | | <1 | <1 |
| Apr-03 | <1 | | <1 | <1 |
| Oct-03 | <1 | | <1 | <1 |

Upgradient Mean + 2(Standard Deviation) = **1.0000** Action Level = **3 fHAL**

Chloride (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 40 | | 53 | 61 |
| Jul-97 | 49 | | 47 | 88 |
| Oct-97 | 41 | | 58 | 155 |
| Jan-98 | 44 | | 80 | 142 |
| Sep-98 | 49 | | 52 | 54 |
| Mar-99 | 34 | | 48 | 100 |
| Apr-00 | 37 | | 40 | 120 |
| Oct-00 | 41 | | 58 | 119 |
| Apr-01 | 49 | | 49 | 135 |
| Oct-01 | 38 | | 63 | 117 |
| Apr-02 | 39 | | 75 | 126 |
| Oct-02 | 53 | | 102 | 127 |
| Apr-03 | 40 | | 64 | 129 |
| Oct-03 | 32 | | 117 | 113 |

Upgradient Mean + 2(Standard Deviation) = **54.2073** Action Level = **250 fSMCL**

Nitrogen, Ammonia (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|------------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | <1 | | <1 | <1 |
| Jul-97 | <1 | | <1 | <1 |
| Oct-97 | <1 | | <1 | 3.2 |
| Jan-98 | <1 | | <1 | 1.1 |
| Sep-98 | <1 | | <1 | <1 |
| Mar-99 | 1.9 | | <1 | <1 |
| Apr-00 | <1 | | <1 | <1 |
| Oct-00 | <1 | | <1 | <1 |
| Apr-01 | <1 | | <1 | <1 |
| Oct-01 | <1 | | <1 | <1 |
| Apr-02 | <1 | | <1 | <1 |
| Oct-02 | <1 | | <1 | <1 |
| Apr-03 | <1 | | <1 | <1 |
| Oct-03 | <1 | | <1 | <1 |

Upgradient Mean + 2(Standard Deviation) = **1.0000** Action Level = **30 dHAL**

Iron, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|--------------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | <0.03 | | <0.03 | <0.03 |
| Jul-97 | <0.03 | | <0.03 | 0.179 |
| Oct-97 | <0.03 | | 0.046 | 0.235 |
| Jan-98 | <0.03 | | 0.072 | 0.113 |
| Sep-98 | <0.03 | | <0.03 | 4.12 |
| Mar-99 | 0.102 | | <0.03 | <0.03 |
| Apr-00 | <0.03 | | 0.106 | 0.051 |
| Oct-00 | <0.03 | | <0.03 | 0.358 |
| Apr-01 | 0.368 | | 0.054 | 0.247 |
| Oct-01 | <0.03 | | 0.242 | 0.069 |
| Apr-02 | <0.03 | | 0.049 | 0.154 |
| Oct-02 | <0.03 | | <0.03 | 0.159 |
| Apr-03 | <0.03 | | <0.03 | 0.933 |
| Oct-03 | <0.03 | | <0.03 | 0.075 |

Upgradient Mean + 2(Standard Deviation) = **0.2411** Action Level = **0.3 f action level**

Chemical Oxygen Demand (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|-------------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | <10 | | 14 | 15 |
| Jul-97 | <10 | | <10 | <10 |
| Oct-97 | <10 | | <10 | 36 |
| Jan-98 | <10 | | 23 | 26 |
| Sep-98 | <10 | | 14 | <10 |
| Mar-99 | <10 | | <10 | 19.4 |
| Apr-00 | <10 | | <10 | <10 |
| Oct-00 | <10 | | <10 | 22 |
| Apr-01 | <10 | | <10 | 12 |
| Oct-01 | <10 | | <10 | <10 |
| Apr-02 | 14 | | <10 | 14 |
| Oct-02 | <10 | | 20 | 21 |
| Apr-03 | 17 | | 24 | 15 |
| Oct-03 | <10 | | 24 | 14 |

Upgradient Mean + 2(Standard Deviation) = **15.0000** Action Level = **None**

Conductance (mS)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|-------------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 0.68 | | 0.68 | 0.67 |
| Jul-97 | 1.00 | | 0.90 | 0.80 |
| Oct-97 | 0.95 | | 0.94 | 1.09 |
| Jan-98 | 0.93 | | 0.90 | 1.23 |
| Sep-98 | 1.12 | | 1.00 | 1.50 |
| Mar-99 | 1.02 | | 0.96 | 1.21 |
| Apr-00 | 1.04 | | 0.97 | 1.86 |
| Oct-00 | 1.15 | | 0.96 | 1.79 |
| Apr-01 | 1.13 | | 1.07 | 1.83 |
| Oct-01 | 1.02 | | 0.90 | 1.33 |
| Apr-02 | 0.99 | | 0.70 | 1.32 |
| Oct-02 | 1.18 | | 0.74 | 1.52 |
| Apr-03 | 1.01 | | 0.64 | 1.71 |
| Oct-03 | 1.04 | | 0.98 | 1.19 |

Upgradient Mean + 2(Standard Deviation) = **1.2633** Action Level = None**pH**

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|------------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 7.1 | | 7.6 | 8.2 |
| Jul-97 | 6.7 | | 7.3 | 8.0 |
| Oct-97 | 7.3 | | 8.0 | 9.9 |
| Jan-98 | 7.4 | | 7.8 | 8.6 |
| Sep-98 | 7.0 | | 7.6 | 8.2 |
| Mar-99 | 6.7 | | 6.8 | 7.0 |
| Apr-00 | 6.9 | | 6.9 | 7.1 |
| Oct-00 | 6.7 | | 7.1 | 7.0 |
| Apr-01 | 7.0 | | 7.6 | 7.8 |
| Oct-01 | 7.7 | | 6.8 | 7.0 |
| Apr-02 | 8.4 | | 7.8 | 7.0 |
| Oct-02 | 6.8 | | 7.2 | 6.8 |
| Apr-03 | 6.7 | | 7.5 | 6.6 |
| Oct-03 | 5.9 | | 6.7 | 6.9 |

Upgradient Mean + 2(Standard Deviation) = **8.1851** Upper Action Level = 8.5 fSMCLUpgradient Mean - 2(Standard Deviation) = **5.8378** Lower Action Level = 6.5 fSMCL**Temperature (C)**

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|--------------|
| | MW-92-1 | | MW-92-4 | MW-92-6 |
| Apr-97 | 11.70 | | 13.00 | 12.00 |
| Jul-97 | 16.70 | | 21.10 | 20.00 |
| Oct-97 | 13.00 | | 10.00 | 12.00 |
| Jan-98 | 10.00 | | 10.00 | 11.00 |
| Sep-98 | 15.00 | | 14.40 | 15.00 |
| Mar-99 | 11.70 | | 13.33 | 13.33 |
| Apr-00 | 12.77 | | 13.88 | 13.88 |
| Oct-00 | 15.55 | | 13.88 | 14.44 |
| Apr-01 | 12.22 | | 13.33 | 13.33 |
| Oct-01 | 13.88 | | 12.77 | 12.22 |
| Apr-02 | 12.78 | | 12.22 | 12.22 |
| Oct-02 | 13.33 | | 13.33 | 13.88 |
| Apr-03 | 12.77 | | 13.33 | 13.88 |
| Oct-03 | 13.88 | | 13.88 | 13.33 |

Upgradient Mean + 2(Standard Deviation) = **16.6638** Action Level = None

Lower Aquifer (Monitoring Wells are Deep) Sampling Result - 1997 to 2003

Arsenic, Dissolved (mg/L)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|---|-------------------|---------------|---------------------|---------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | <0.001 | | <0.001 | <0.001 |
| Jul-97 | <0.001 | | <0.001 | <0.001 |
| Oct-97 | <0.001 | | <0.001 | <0.001 |
| Jan-98 | 0.001 | | <0.001 | 0.001 |
| Mar-99 | <0.001 | | <0.001 | <0.001 |
| Upgradient Mean + 2(Standard Deviation) = | | 0.0010 | Action Level = | |
| | | | 0.001 dNRL | |

Barium, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|---|-------------------|---------------|---------------------|--------------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 0.139 | | 0.090 | 0.150 |
| Jul-97 | 0.101 | | 0.073 | 0.088 |
| Oct-97 | 0.113 | | 0.090 | 0.120 |
| Jan-98 | 0.145 | | 0.104 | 0.167 |
| Mar-99 | 0.112 | | 0.19 | 0.164 |
| Upgradient Mean + 2(Standard Deviation) = | | 0.1599 | Action Level = | |
| | | | 2 fHAL | |

Cadmium, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|---|-------------------|---------------|---------------------|---------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 0.002 | | <0.001 | <0.001 |
| Jul-97 | 0.001 | | 0.002 | <0.001 |
| Oct-97 | <0.001 | | <0.001 | <0.001 |
| Jan-98 | <0.001 | | <0.001 | <0.001 |
| Mar-99 | <0.001 | | <0.001 | <0.001 |
| Upgradient Mean + 2(Standard Deviation) = | | 0.0021 | Action Level = | |
| | | | 0.005 fHAL | |

Magnesium, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|---|-------------------|----------------|---------------------|-------------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 48.5 | | 49 | 57 |
| Jul-97 | 48.1 | | 47.6 | 32.5 |
| Oct-97 | 46.8 | | 46.8 | 43.8 |
| Jan-98 | 49.0 | | 50 | 61 |
| Mar-99 | 41.6 | | 47.4 | 55.7 |
| Upgradient Mean + 2(Standard Deviation) = | | 52.8382 | Action Level = | |
| | | | None | |

Zinc, Dissolved (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|---|-------------------|---------------|---------------------|--------------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | <0.03 | | <0.03 | 0.03 |
| Jul-97 | <0.047 | | 0.083 | 0.072 |
| Oct-97 | 0.03 | | 0.032 | <0.03 |
| Jan-98 | <0.03 | | <0.03 | <0.03 |
| Mar-99 | <0.03 | | <0.03 | <0.03 |
| Upgradient Mean + 2(Standard Deviation) = | | 0.0486 | Action Level = | |
| | | | 2 fHAL | |

Chloride (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 79 | | 69 | 51 |
| Jul-97 | 77 | | 75 | 98 |
| Oct-97 | 68 | | 78 | 72 |
| Jan-98 | 82 | | 85 | 50 |
| Sep-98 | 81.2 | | 75 | 54 |
| Mar-99 | 80 | | 64 | 57 |
| Apr-00 | 27 | | 58 | 41 |
| Oct-00 | 51 | | 63 | 46 |
| Apr-01 | 68 | | 68 | 39 |
| Oct-01 | 69 | | 74 | 52 |
| Apr-02 | 62 | | 61 | 52 |
| Oct-02 | 71 | | 69 | 58 |
| Apr-03 | 36 | | 71 | 58 |
| Oct-03 | 70 | | 66 | 113 |

Upgradient Mean + 2(Standard Deviation) = **99.5068** Action Level = **250 fSMCL****Nitrogen, Ammonia (mg/l)**

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | <1 | | <1 | <1 |
| Jul-97 | <1 | | <1 | <1 |
| Oct-97 | <1 | | <1 | <1 |
| Jan-98 | <1 | | <1 | <1 |
| Sep-98 | <1 | | <1 | <1 |
| Mar-99 | <1 | | <1 | <1 |
| Apr-00 | <1 | | <1 | <1 |
| Oct-00 | <1 | | <1 | <1 |
| Apr-01 | <1 | | <1 | <1 |
| Oct-01 | <1 | | <1 | <1 |
| Apr-02 | <1 | | <1 | <1 |
| Oct-02 | <1 | | <1 | <1 |
| Apr-03 | <1 | | <1 | <1 |
| Oct-03 | <1 | | <1 | <1 |

Upgradient Mean + 2(Standard Deviation) = **1.0000** Action Level = **30 fSMCL****Iron, Dissolved (mg/l)**

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|---------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 8.72 | | 8.14 | 7.54 |
| Jul-97 | 0.12 | | <0.03 | 0.04 |
| Oct-97 | 2.76 | | 6.65 | 0.06 |
| Jan-98 | 9.70 | | 9.06 | 8.27 |
| Sep-98 | 8.35 | | 8.50 | 4.12 |
| Mar-99 | 8.37 | | 7.86 | 6.52 |
| Apr-00 | 0.56 | | 3.20 | 3.23 |
| Oct-00 | <0.03 | | 7.32 | 6.82 |
| Apr-01 | 7.06 | | 7.62 | 7.24 |
| Oct-01 | 8.06 | | 7.72 | 8.21 |
| Apr-02 | 7.62 | | 7.13 | 6.33 |
| Oct-02 | 6.33 | | 3.1 | 5.24 |
| Apr-03 | <0.03 | | 0.824 | 6.24 |
| Oct-03 | 6.29 | | <0.030 | 5.96 |

Upgradient Mean + 2(Standard Deviation) = **12.7100** Action Level = **0.3 f action level**

Chemical Oxygen Demand (mg/l)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|-----------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | <10 | | <10 | 19 |
| Jul-97 | <10 | | <10 | <10 |
| Oct-97 | <10 | | <10 | <10 |
| Jan-98 | <10 | | <10 | <10 |
| Sep-98 | <10 | | <10 | <10 |
| Mar-99 | <10 | | <10 | <10 |
| Apr-00 | <10 | | <10 | <10 |
| Oct-00 | <10 | | <10 | <10 |
| Apr-01 | <10 | | <10 | <10 |
| Oct-01 | <10 | | <10 | 14 |
| Apr-02 | <10 | | <10 | 11 |
| Oct-02 | 11 | | 11 | 14 |
| Apr-03 | 18 | | <10 | 25 |
| Oct-03 | <10 | | <10 | 12 |

Upgradient Mean + 2(Standard Deviation) = **14.9110** Action Level = None

Conductance (mS)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|-------------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 0.83 | | 0.85 | 0.88 |
| Jul-97 | 0.90 | | 1.10 | 0.80 |
| Oct-97 | 1.12 | | 1.16 | 1.21 |
| Jan-98 | 1.15 | | 1.17 | 1.26 |
| Sep-98 | 1.21 | | 1.27 | 1.50 |
| Mar-99 | 1.22 | | 1.36 | 1.43 |
| Apr-00 | 1.00 | | 1.19 | 1.28 |
| Oct-00 | 1.18 | | 1.18 | 1.24 |
| Apr-01 | 1.17 | | 1.19 | 1.22 |
| Oct-01 | 1.20 | | 1.21 | 1.26 |
| Apr-02 | 1.08 | | 1.05 | 1.09 |
| Oct-02 | 1.18 | | 1.20 | 1.35 |
| Apr-03 | 1.05 | | 1.16 | 1.27 |
| Oct-03 | 1.16 | | 1.12 | 1.22 |

Upgradient Mean + 2(Standard Deviation) = **1.3430** Action Level = None

pH

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|------------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 7.5 | | 7.3 | 6.9 |
| Jul-97 | 7.6 | | 7.2 | 6.9 |
| Oct-97 | 7.4 | | 7.7 | 7.6 |
| Jan-98 | 7.5 | | 7.2 | 7.2 |
| Sep-98 | 7.2 | | 7.2 | 7.2 |
| Mar-99 | 6.4 | | 6.8 | 6.7 |
| Apr-00 | 7.1 | | 6.8 | 6.6 |
| Oct-00 | 6.7 | | 6.8 | 6.8 |
| Apr-01 | 7.1 | | 7.4 | 7.3 |
| Oct-01 | 7.6 | | 6.7 | 7.3 |
| Apr-02 | 8.7 | | 7.3 | 6.2 |
| Oct-02 | 6.8 | | 6.8 | 6.7 |
| Apr-03 | 6.7 | | 6.9 | 6.9 |
| Oct-03 | 6.2 | | 6.5 | 6.6 |

Upgradient Mean + 2(Standard Deviation) = **8.4340** Upper Action Level = 8.5 fSMCL

Upgradient Mean - 2(Standard Deviation) = **5.9289** Lower Action Level = 6.5 fSMCL

Temperature (C)

| Date | <u>Upgradient</u> | | <u>Downgradient</u> | |
|--------|-------------------|--|---------------------|--------------|
| | MW-92-2 | | MW-92-5 | MW-92-7 |
| Apr-97 | 11.70 | | 13.00 | 12.00 |
| Jul-97 | 17.80 | | 18.30 | 17.80 |
| Oct-97 | 12.00 | | 10.00 | 10.00 |
| Jan-98 | 11.00 | | 8.00 | 11.00 |
| Sep-98 | 13.88 | | 13.33 | 13.33 |
| Mar-99 | 12.22 | | 12.77 | 12.22 |
| Apr-00 | 12.77 | | 14.44 | 13.88 |
| Oct-00 | 15.55 | | 13.88 | 14.44 |
| Apr-01 | 12.77 | | 13.33 | 13.33 |
| Oct-01 | 12.77 | | 12.77 | 13.33 |
| Apr-02 | 12.77 | | 12.22 | 12.22 |
| Oct-02 | 13.33 | | 13.33 | 13.33 |
| Apr-03 | 13.88 | | 13.88 | 13.33 |
| Oct-03 | 13.33 | | 13.33 | 13.33 |

Upgradient Mean + 2(Standard Deviation) = **16.6799**

Action Level =

None

SURFACE WATER SAMPLING RESULTS - 1997 to 2003**Arsenic, Dissolved (mg/L)**

| Date | SW-1 |
|--------|--------|
| Apr-97 | 0.0013 |
| Jul-97 | 0.002 |
| Oct-97 | 0.0029 |
| Jan-98 | 0.003 |
| Mar-99 | <0.001 |

Upgradient Mean + 2(Standard Deviation) = **0.0039** Action Level = **0.001 dNRL****Barium, Dissolved (mg/l)**

| Date | SW-1 |
|--------|-------|
| Apr-97 | 0.11 |
| Jul-97 | 0.05 |
| Oct-97 | 0.099 |
| Jan-98 | 0.076 |
| Mar-99 | 0.048 |

Upgradient Mean + 2(Standard Deviation) = **0.1327** Action Level = **2 fHAL****Magnesium, Dissolved (mg/l)**

| Date | SW-1 |
|--------|------|
| Apr-97 | 0.68 |
| Jul-97 | 4 |
| Oct-97 | 0.25 |
| Jan-98 | 0.3 |
| Mar-99 | 2.06 |

Upgradient Mean + 2(Standard Deviation) = **4.6564** Action Level = **None****Zinc, Dissolved (mg/l)**

| Date | SW-1 |
|--------|-------|
| Apr-97 | <0.03 |
| Jul-97 | 0.031 |
| Oct-97 | 0.033 |
| Jan-98 | <0.03 |
| Mar-99 | <0.03 |

Upgradient Mean + 2(Standard Deviation) = **0.0334** Action Level = **2 fHAL**

Chloride (mg/l)

| Date | SW-1 |
|--------|------|
| Apr-97 | 54 |
| Jul-97 | 52 |
| Oct-97 | 51 |
| Jan-98 | 56 |
| Sep-98 | 47.5 |
| Mar-99 | 51 |
| Apr-00 | 46 |
| Oct-00 | 41 |
| Apr-01 | 46 |
| Oct-01 | 48 |
| Apr-02 | 44 |
| Oct-02 | 45 |
| Apr-03 | 51 |
| Oct-03 | 47 |

Upgradient Mean + 2(Standard Deviation) = **56.8049** Action Level = **250 fSMCL**

Nitrogen, Ammonia (mg/l)

| Date | SW-1 |
|--------|------|
| Apr-97 | <1 |
| Jul-97 | <1 |
| Oct-97 | <1 |
| Jan-98 | <1 |
| Sep-98 | <1 |
| Mar-99 | <1 |
| Apr-00 | <1 |
| Oct-00 | <1 |
| Apr-01 | <1 |
| Oct-01 | <1 |
| Apr-02 | <1 |
| Oct-02 | <1 |
| Apr-03 | <1 |
| Oct-03 | <1 |

Upgradient Mean + 2(Standard Deviation) = **1.0000** Action Level = **30 f action level**

Iron, Dissolved (mg/l)

| Date | SW-1 |
|--------|--------------|
| Apr-97 | 0.033 |
| Jul-97 | 0.035 |
| Oct-97 | <0.03 |
| Jan-98 | <0.035 |
| Sep-98 | <0.03 |
| Mar-99 | 0.052 |
| Apr-00 | <0.03 |
| Oct-00 | <0.03 |
| Apr-01 | 0.082 |
| Oct-01 | <0.03 |
| Apr-02 | <0.03 |
| Oct-02 | 0.032 |
| Apr-03 | <0.030 |
| Oct-03 | <0.030 |

Upgradient Mean + 2(Standard Deviation) = **0.0651** Action Level = **0.3 f action level**

Chemical Oxygen Demand (mg/l)

| Date | SW-1 |
|--------|------|
| Apr-97 | 27 |
| Jul-97 | 21 |
| Oct-97 | 11 |
| Jan-98 | 27 |
| Sep-98 | <10 |
| Mar-99 | 10.5 |
| Apr-00 | <10 |
| Oct-00 | 18 |
| Apr-01 | 13 |
| Oct-01 | <10 |
| Apr-02 | 11 |
| Oct-02 | 23 |
| Apr-03 | 29 |
| Oct-03 | 15 |

Upgradient Mean + 2(Standard Deviation) = **31.2629** Action Level = None
Conductance (mS)

| Date | SW-1 |
|--------|------|
| Apr-97 | 0.54 |
| Jul-97 | 0.58 |
| Oct-97 | 0.63 |
| Jan-98 | 0.54 |
| Sep-98 | 0.50 |
| Mar-99 | 0.54 |
| Apr-00 | 0.53 |
| Oct-00 | 0.49 |
| Apr-01 | 0.51 |
| Oct-01 | 0.57 |
| Apr-02 | 0.48 |
| Oct-02 | 0.81 |
| Apr-03 | 0.93 |
| Oct-03 | 0.86 |

Upgradient Mean + 2(Standard Deviation) = **0.9027** Action Level = None
pH

| Date | SW-1 |
|--------|-------|
| Apr-97 | 11.4 |
| Jul-97 | 10.1 |
| Oct-97 | 11.2 |
| Jan-98 | 11.8 |
| Sep-98 | 9.5 |
| Mar-99 | 9.8 |
| Apr-00 | 9.8 |
| Oct-00 | 6.2 |
| Apr-01 | 8.7 |
| Oct-01 | 8.3 |
| Apr-02 | 11.3 |
| Oct-02 | 11.22 |
| Apr-03 | 11.34 |
| Oct-03 | 10.65 |

Upgradient Mean + 2(Standard Deviation) = **13.2051** Upper Action Level = **8.5 fSMCL**
 Upgradient Mean - 2(Standard Deviation) = **6.9778** Lower Action Level = **6.5 fSMCL**

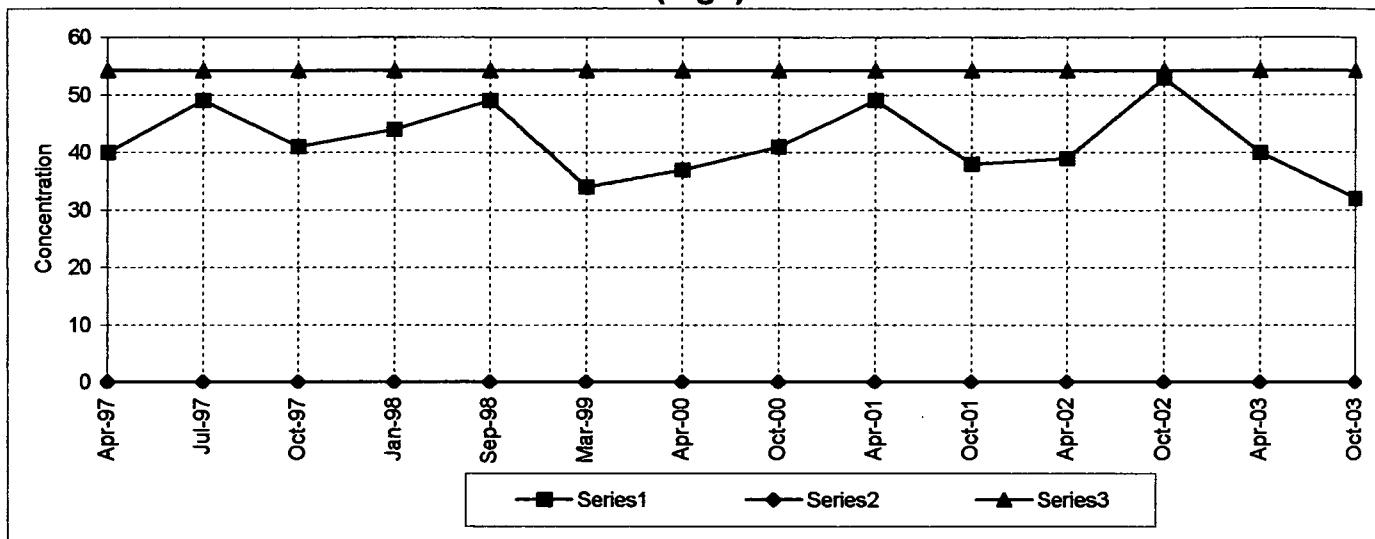
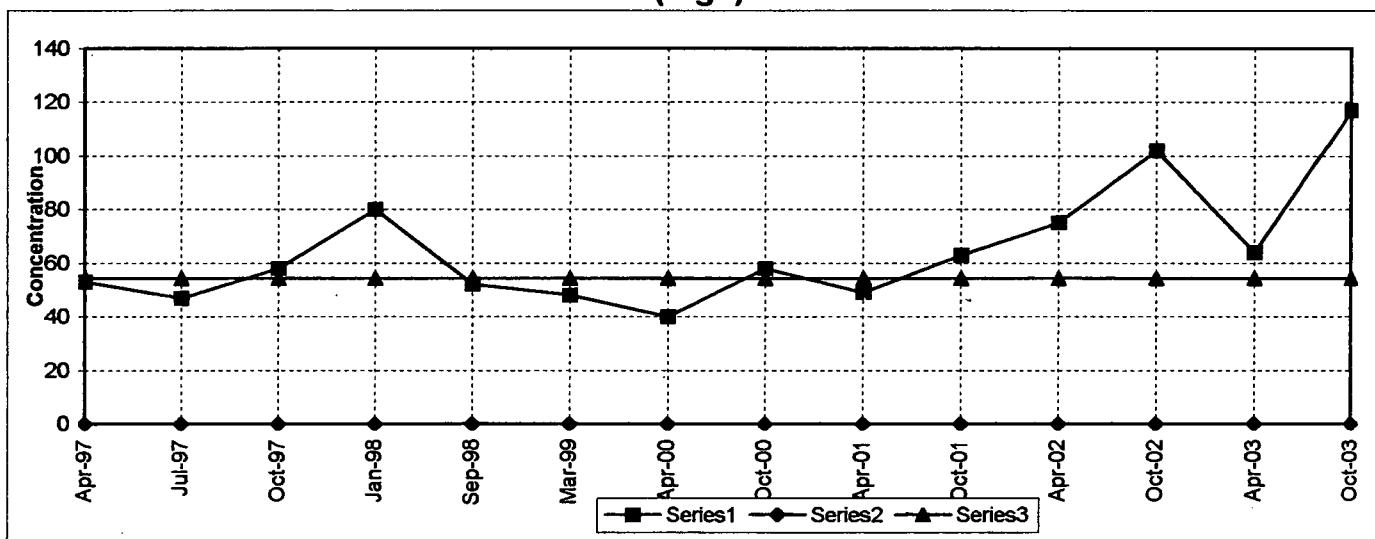
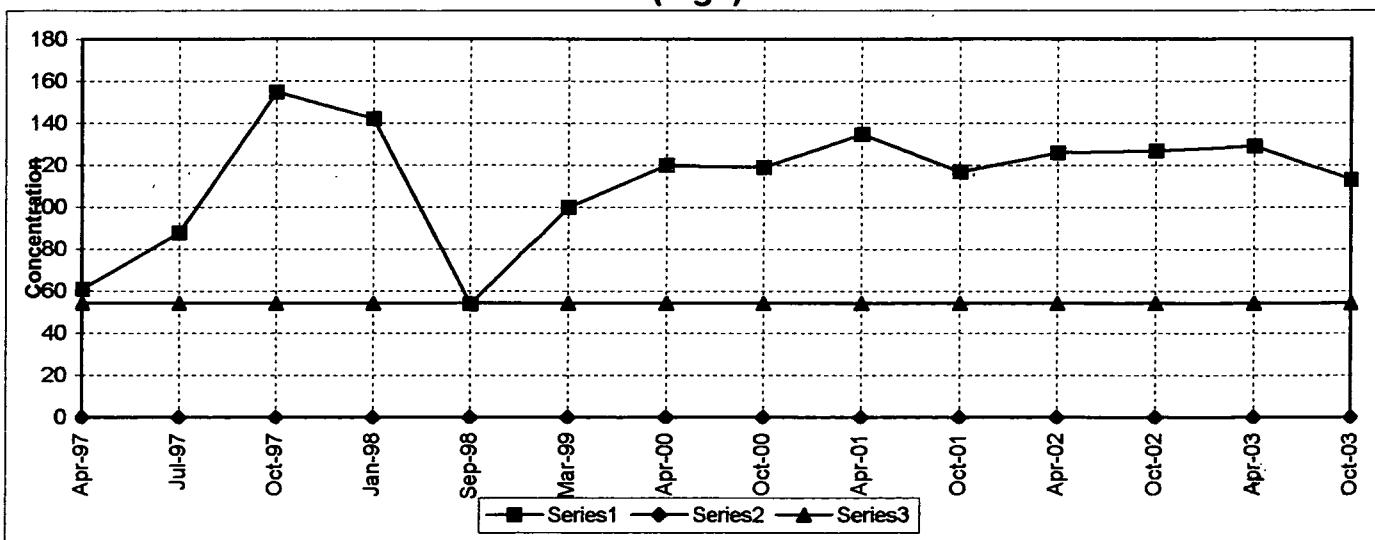
Temperature (C)

| Date | SW-1 |
|--------|-------|
| Apr-97 | 12.00 |
| Jul-97 | 26.70 |
| Oct-97 | 14.00 |
| Jan-98 | 0.00 |
| Sep-98 | 24.40 |
| Mar-99 | 8.33 |
| Apr-00 | 18.88 |
| Oct-00 | 17.77 |
| Apr-01 | 17.77 |
| Oct-01 | 12.78 |
| Apr-02 | 14.44 |
| Oct-02 | 13.88 |
| Apr-03 | 14.44 |
| Oct-03 | 12.77 |

Upgradient Mean + 2(Standard Deviation) = **27.8381**

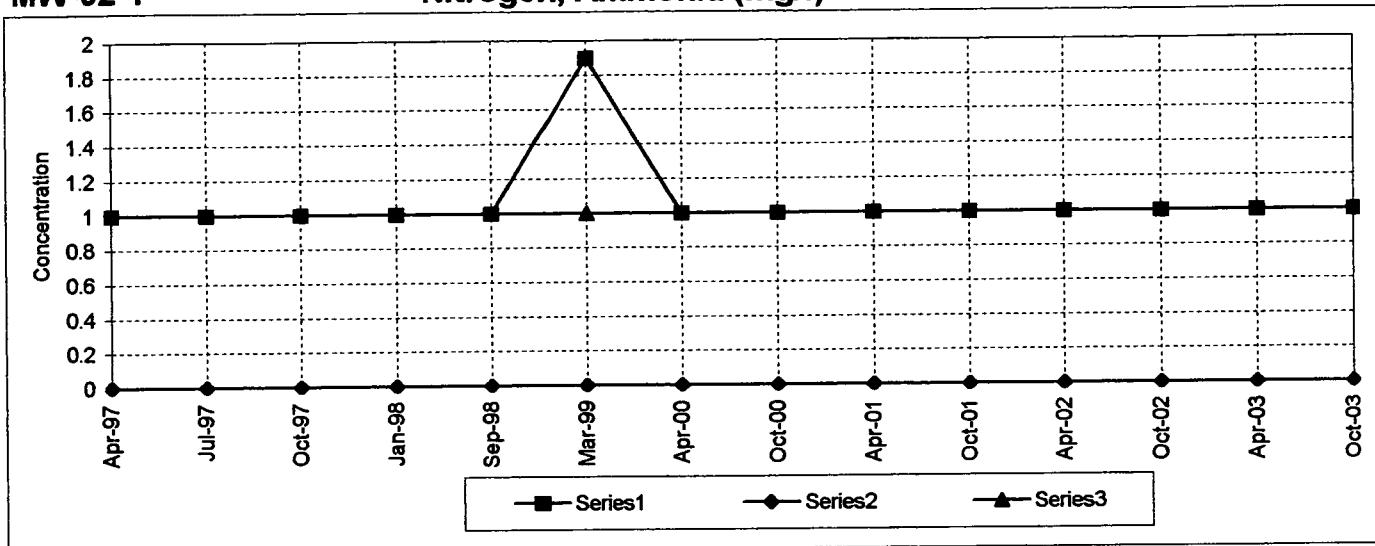
Action Level =

None

MW-92-1**Chloride (mg/l)****MW-92-4****Chloride (mg/l)****MW-92-6****Chloride (mg/l)**

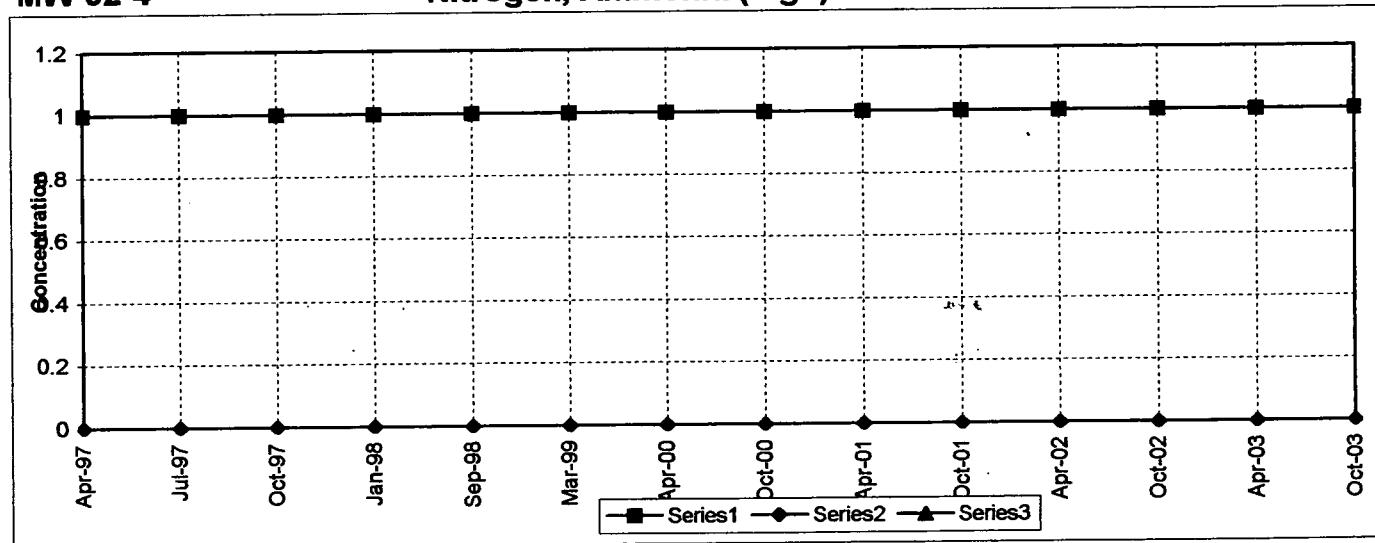
MW-92-1

Nitrogen, Ammonia (mg/l)



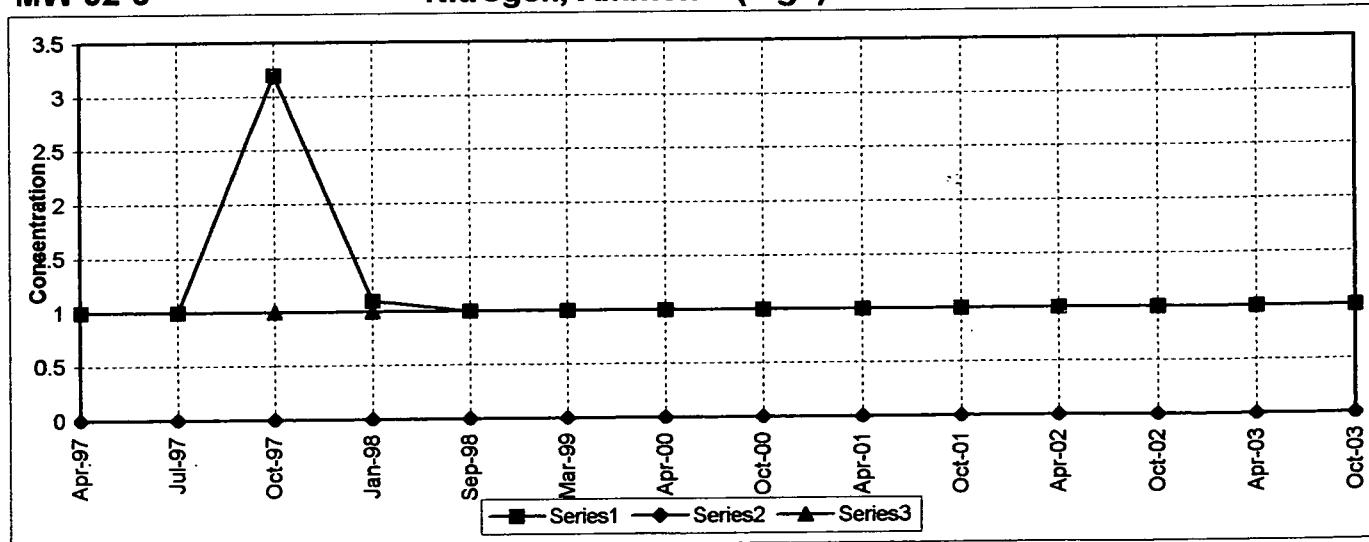
MW-92-4

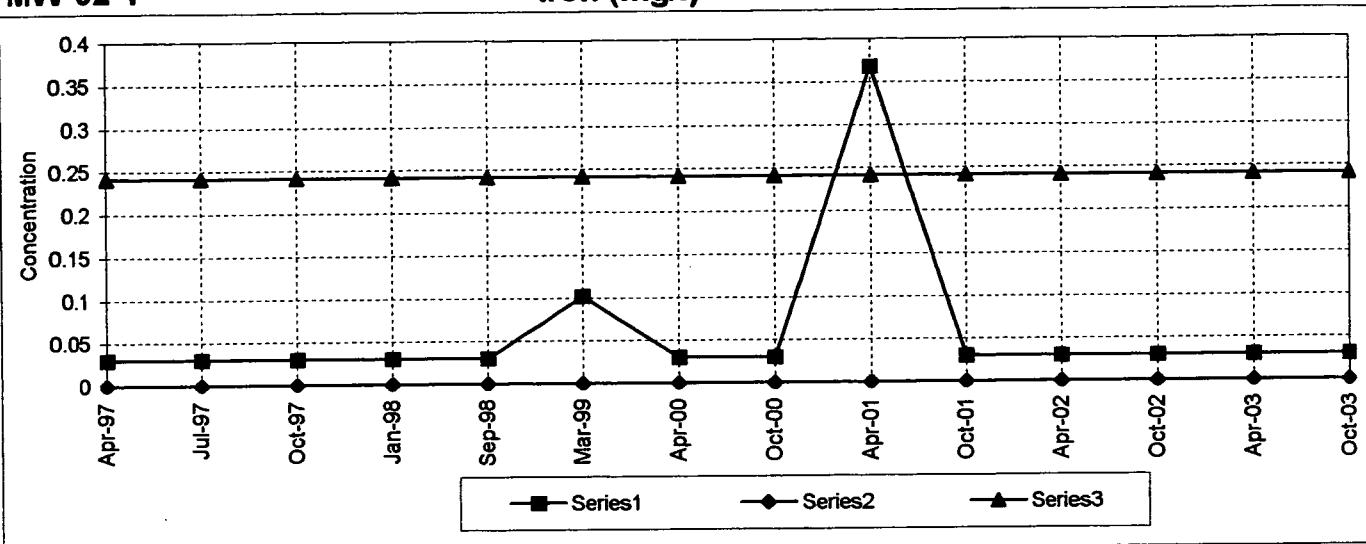
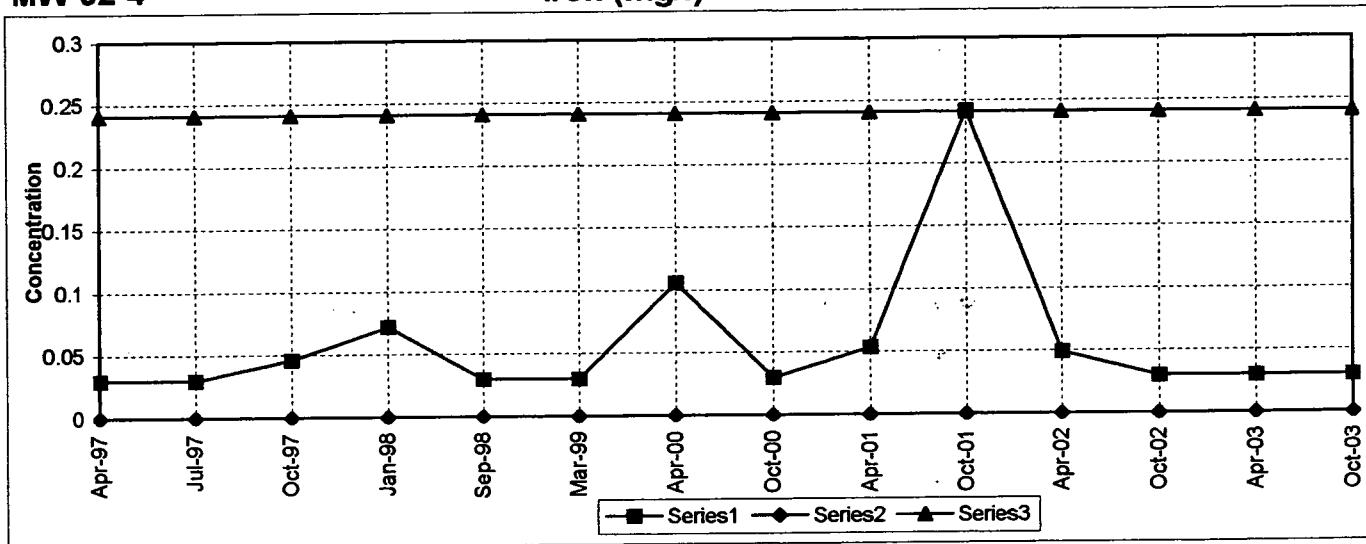
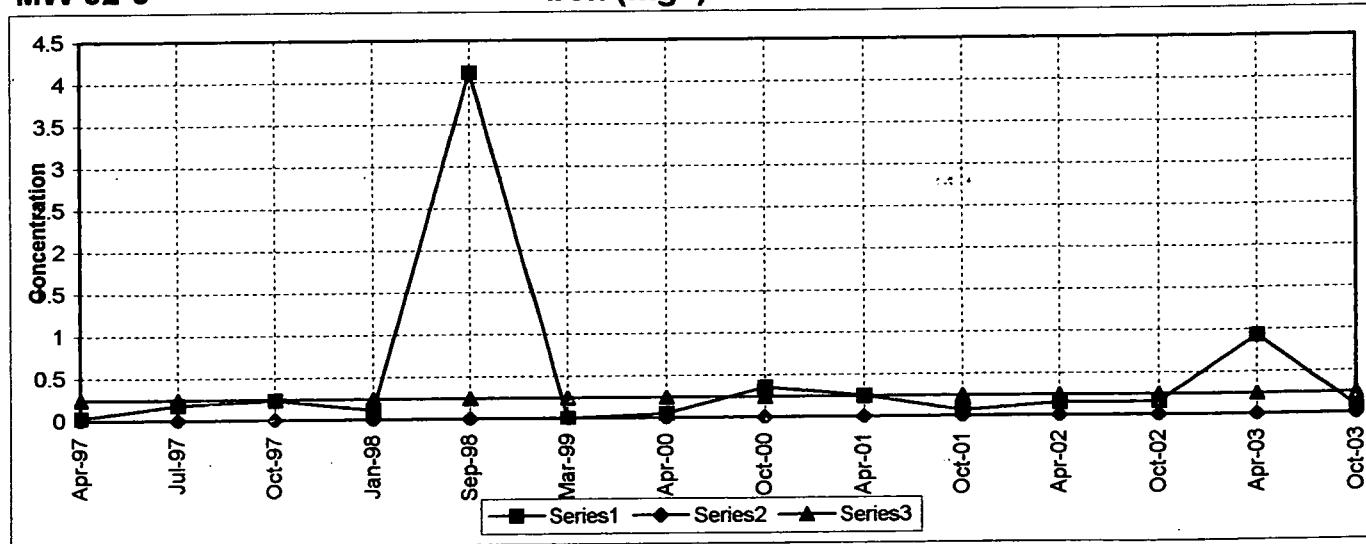
Nitrogen, Ammonia (mg/l)

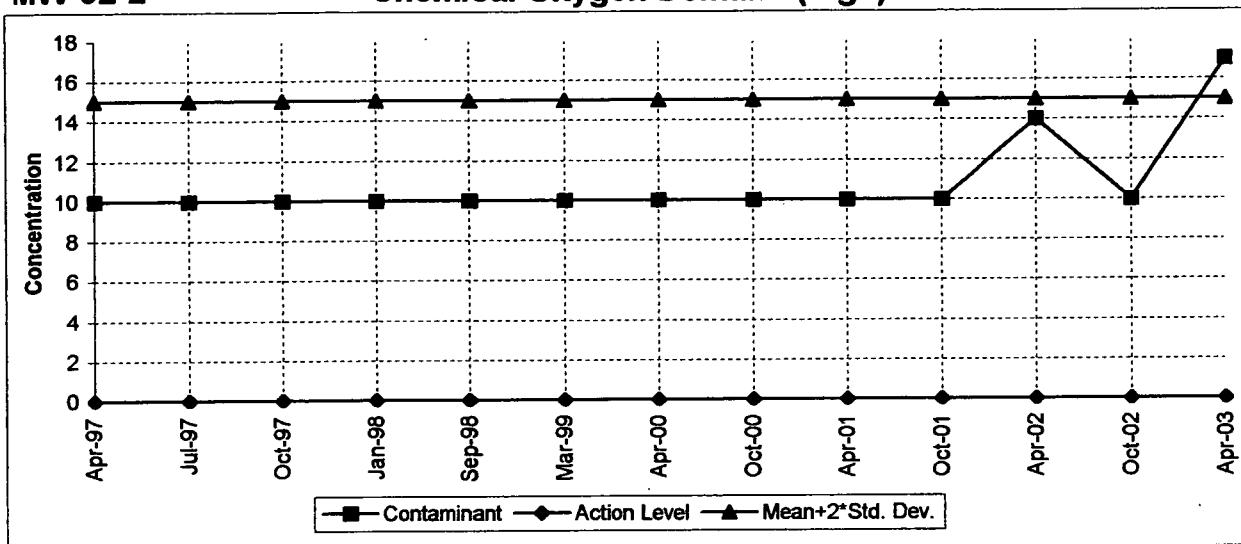
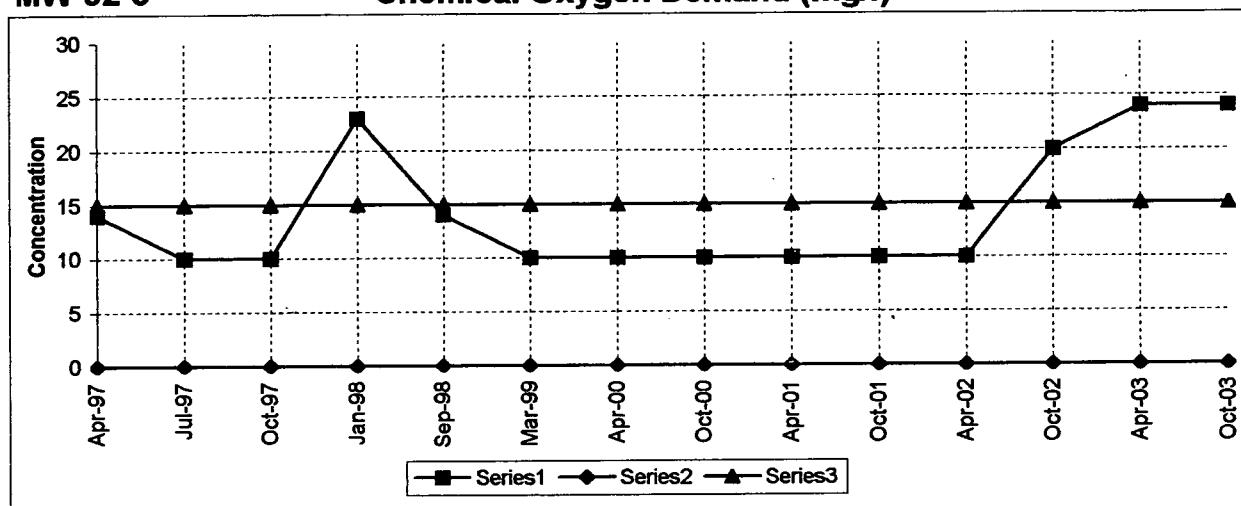
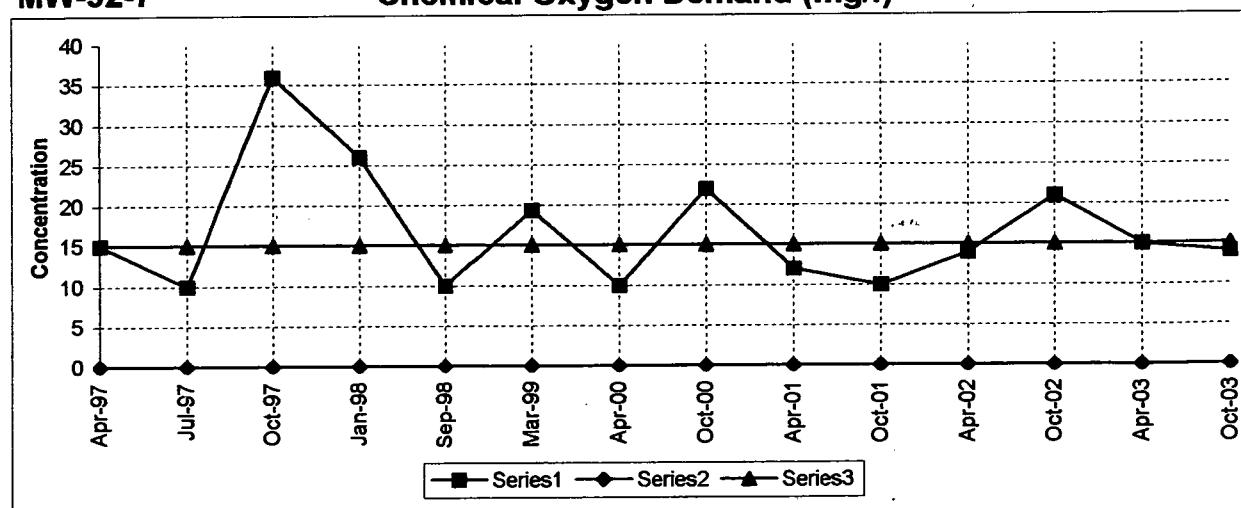


MW-92-6

Nitrogen, Ammonia (mg/l)

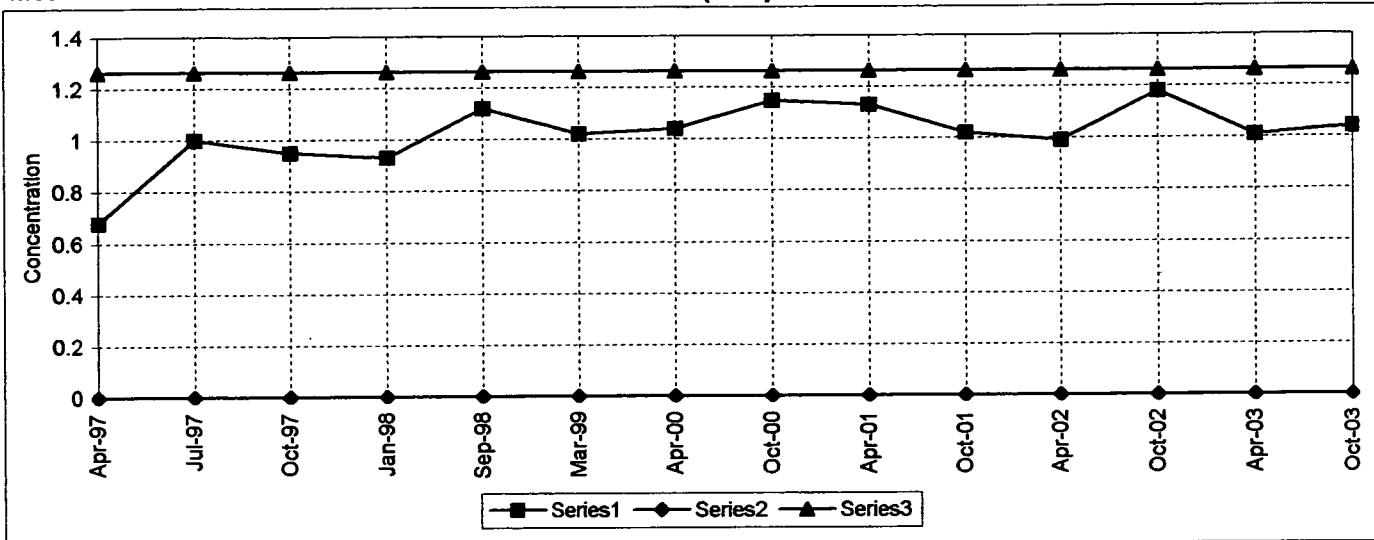


MW-92-1**Iron (mg/l)****MW-92-4****Iron (mg/l)****MW-92-6****Iron (mg/l)**

MW-92-2**Chemical Oxygen Demand (mg/l)****MW-92-5****Chemical Oxygen Demand (mg/l)****MW-92-7****Chemical Oxygen Demand (mg/l)**

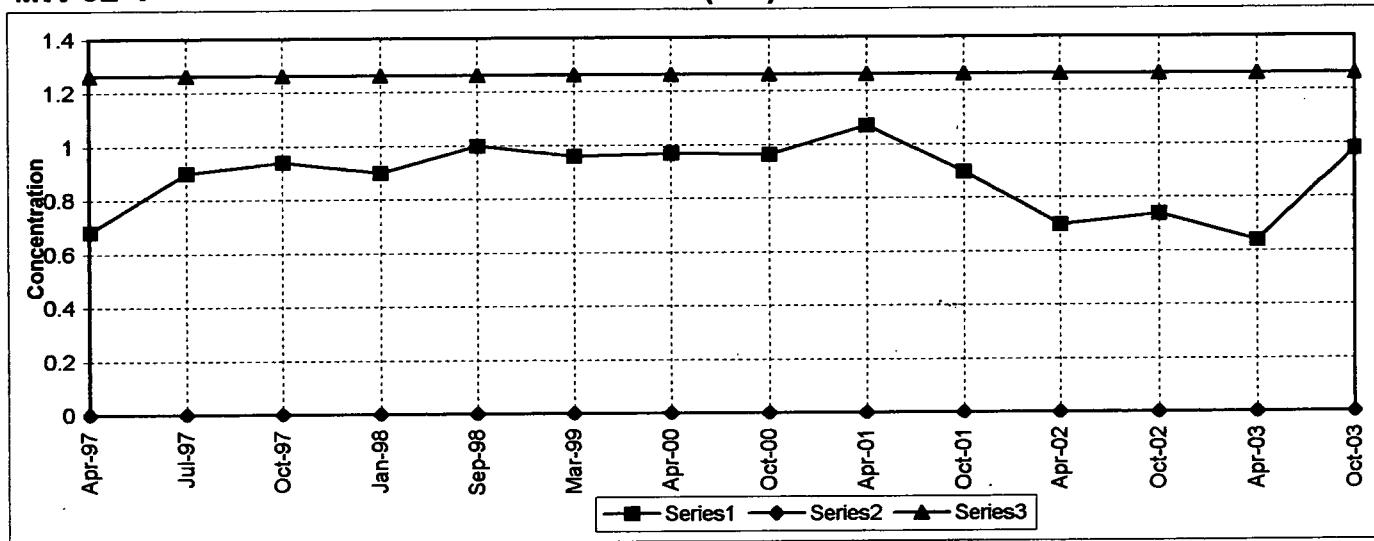
MW-92-1

Conductance (mS)



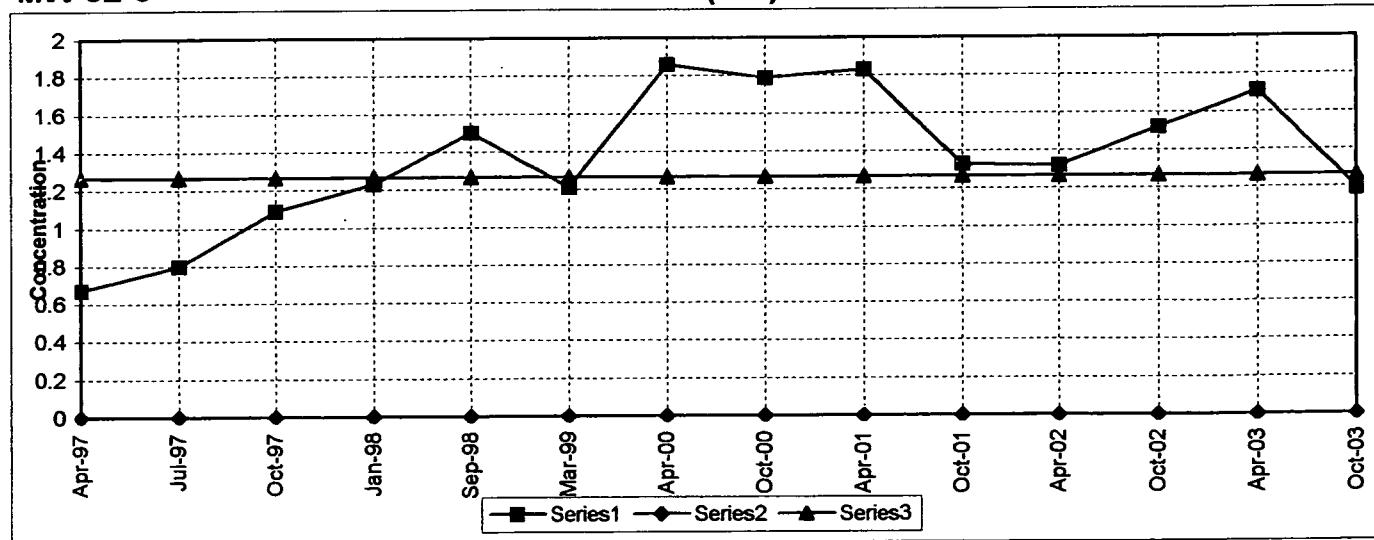
MW-92-4

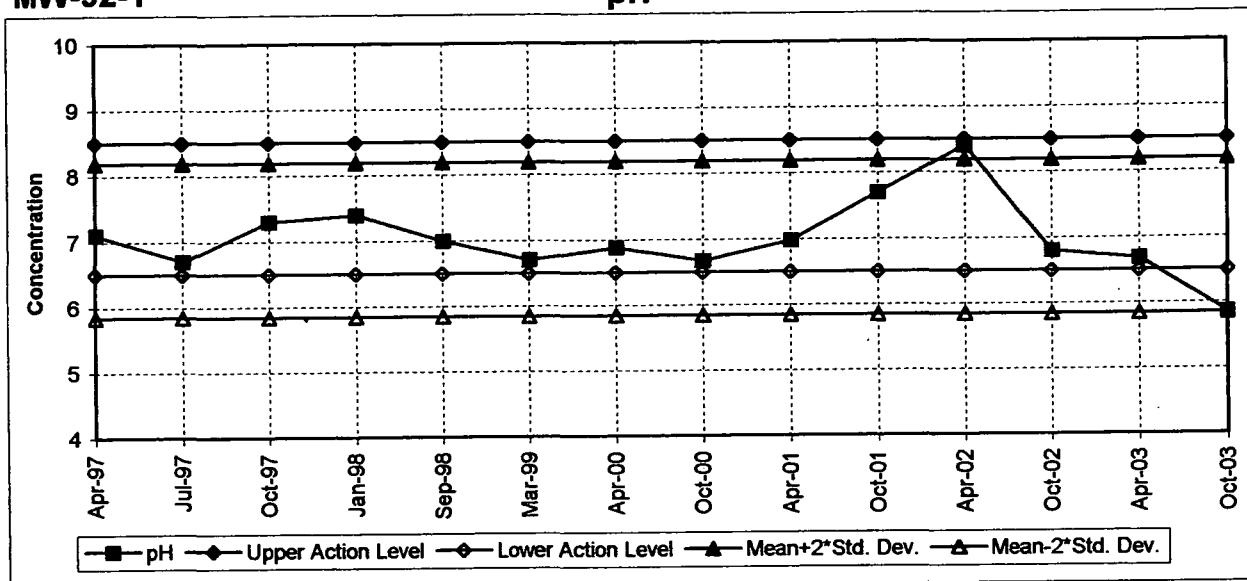
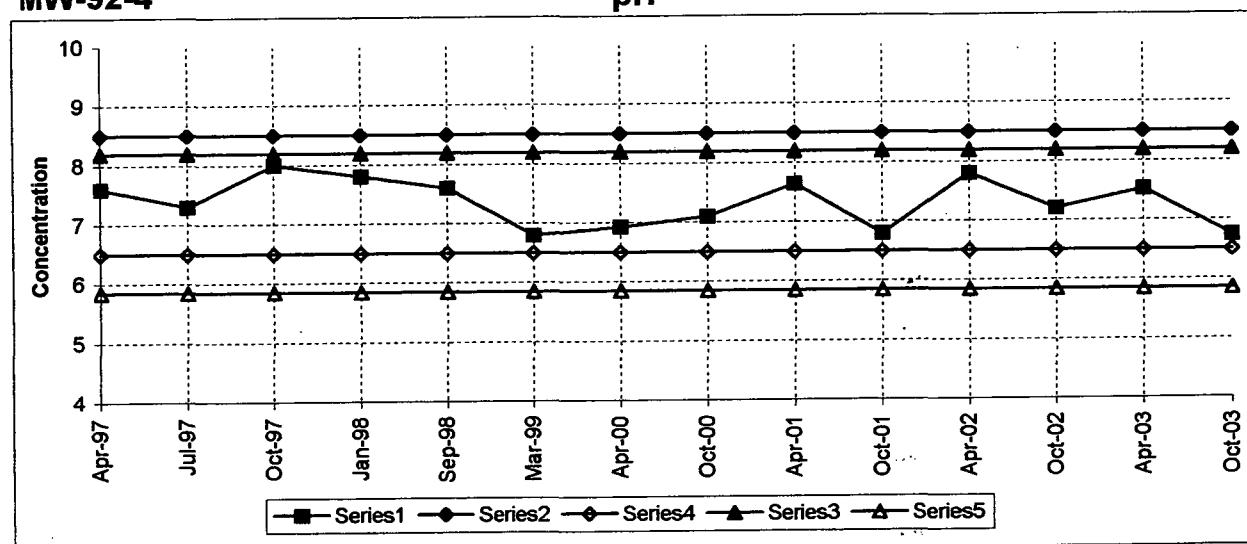
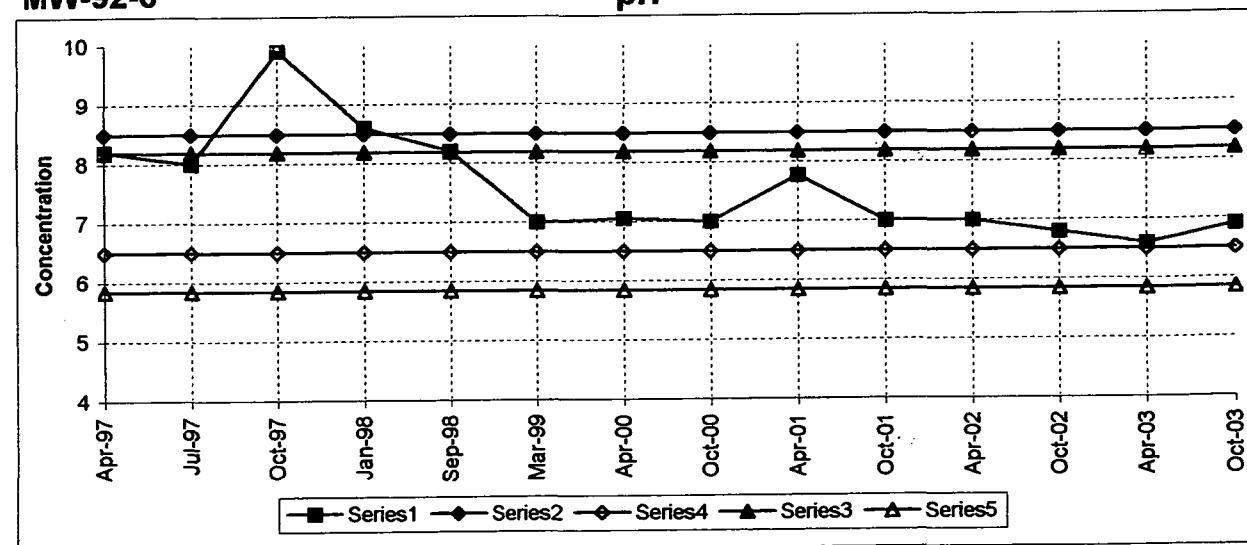
Conductance (mS)



MW-92-6

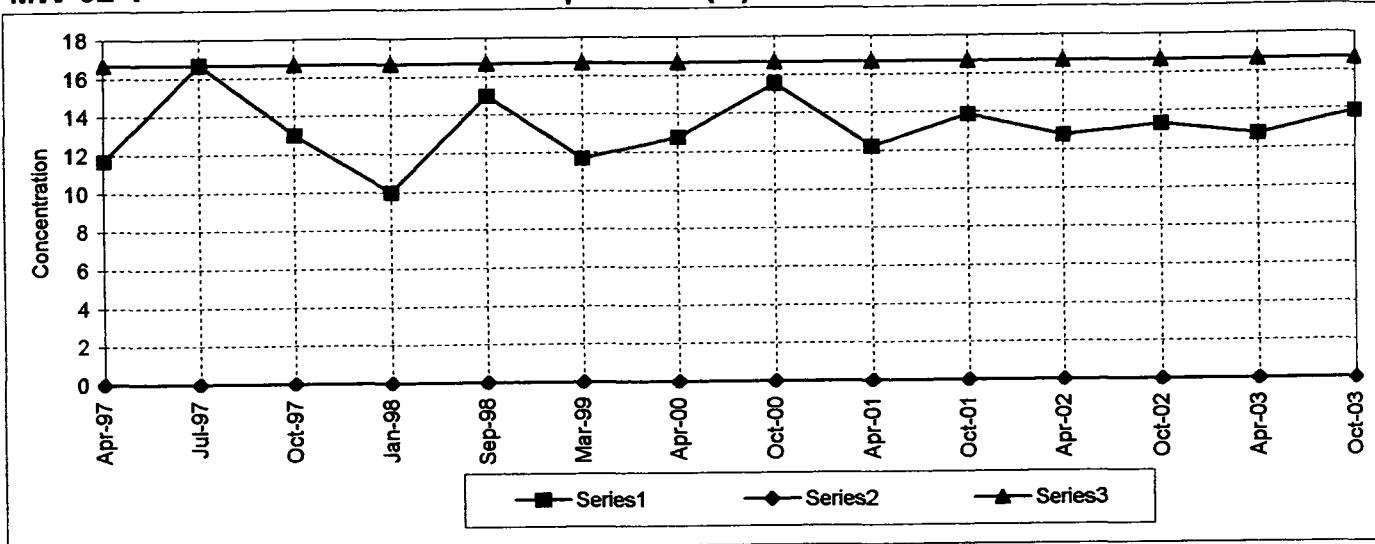
Conductance (mS)



MW-92-1**pH****MW-92-4****pH****MW-92-6****pH**

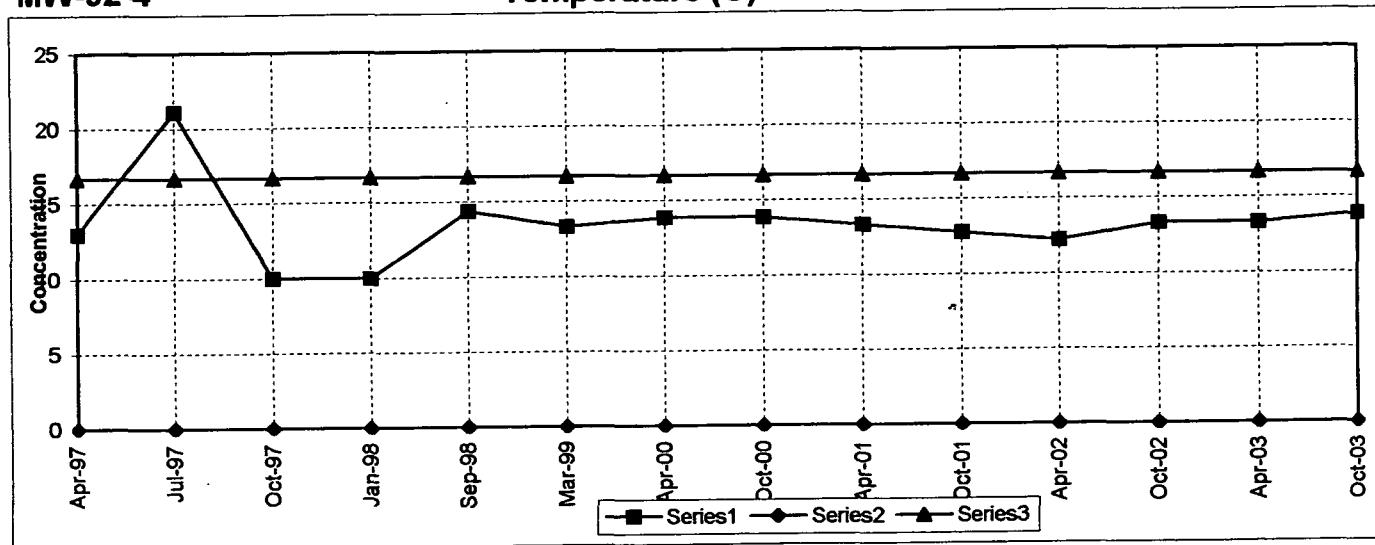
MW-92-1

Temperature (C)



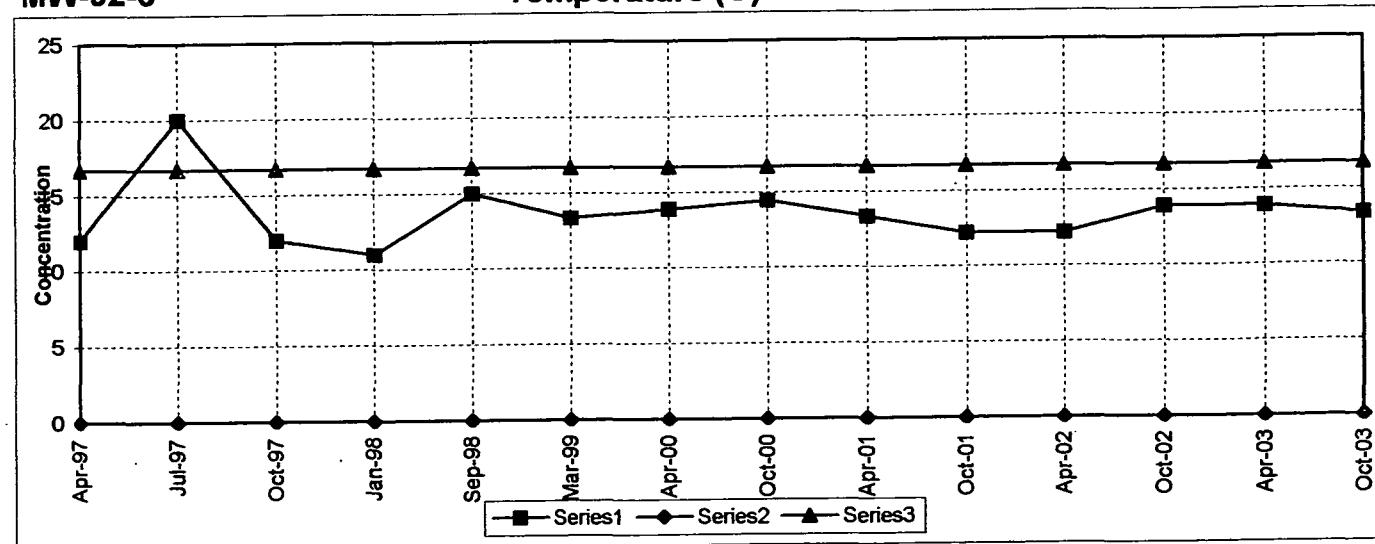
MW-92-4

Temperature (C)



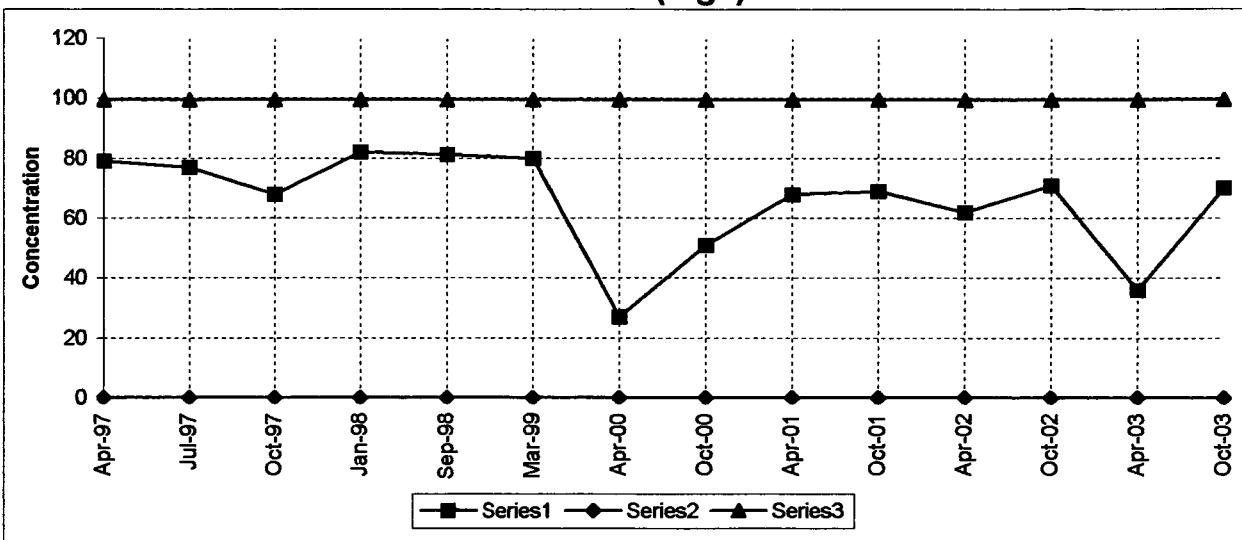
MW-92-6

Temperature (C)



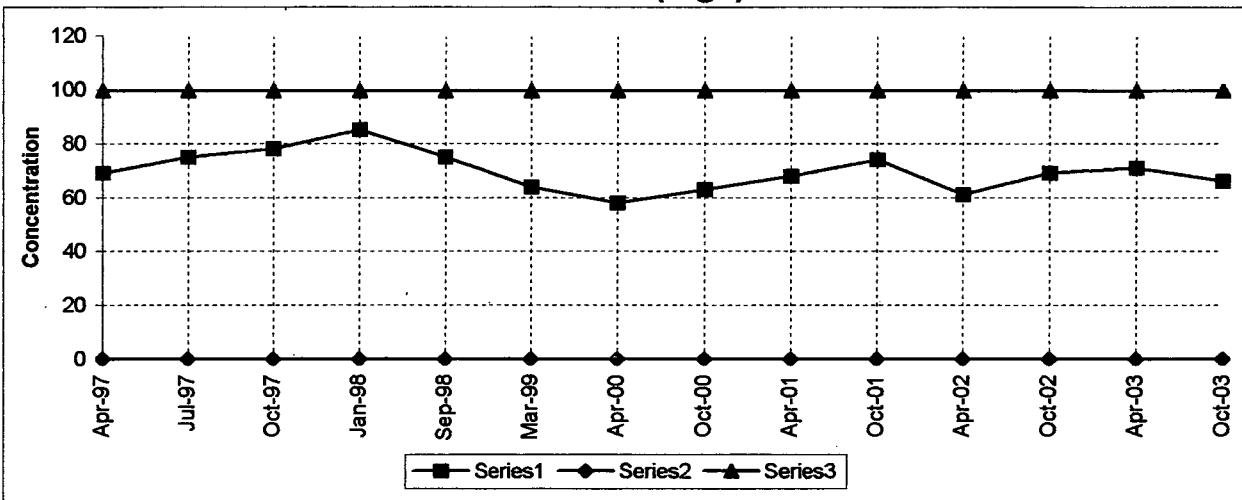
MW-92-2

Chloride (mg/l)



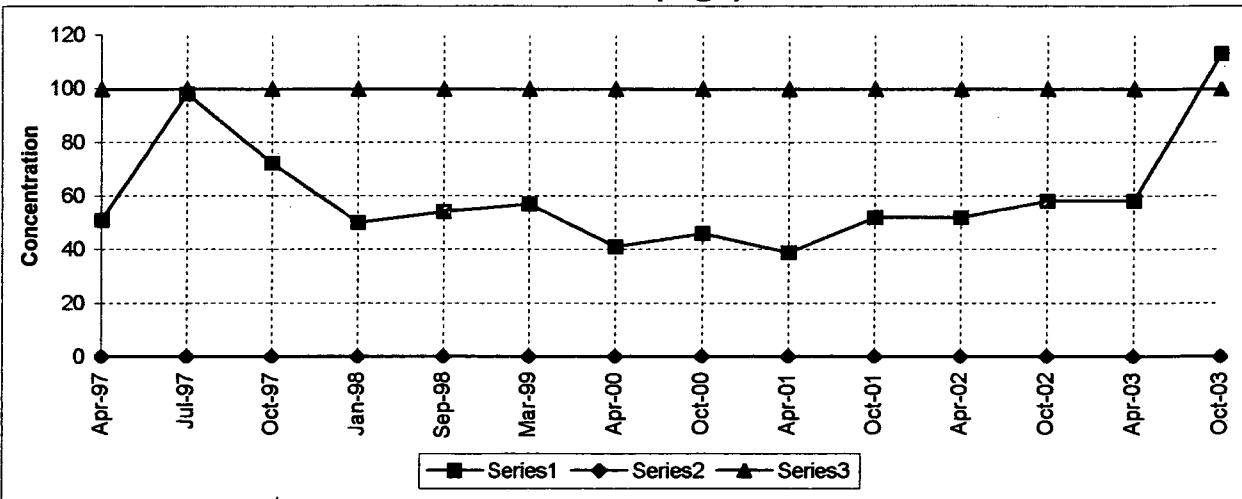
MW-92-5

Chloride (mg/l)



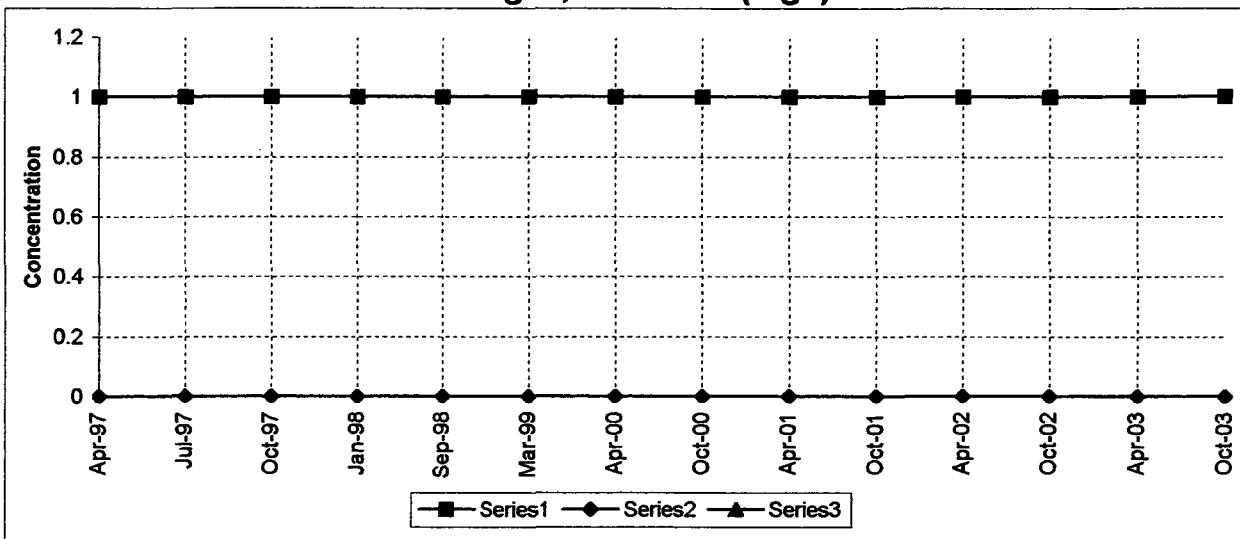
MW-92-7

Chloride (mg/l)



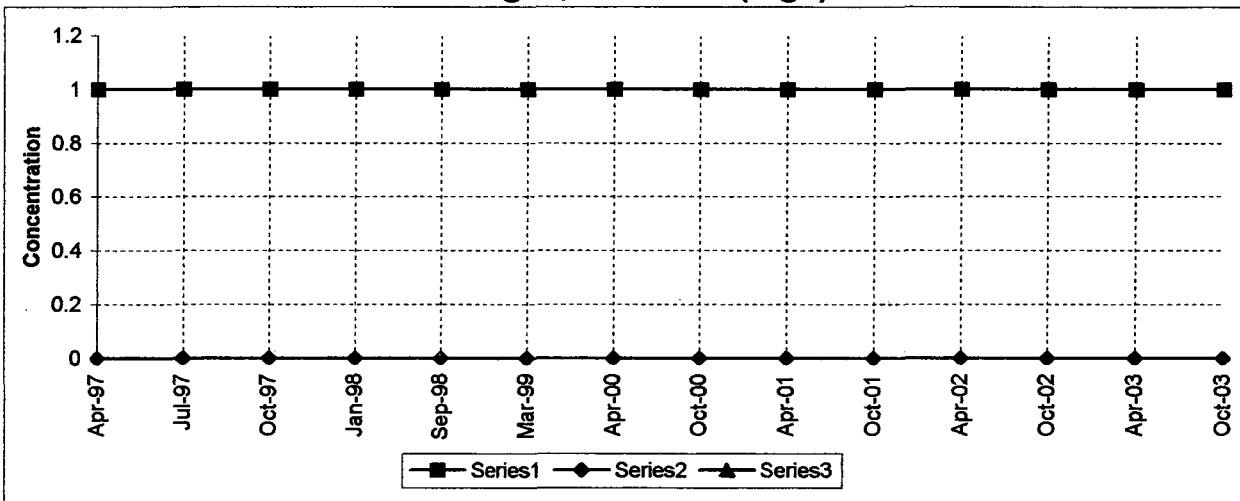
MW-92-2

Nitrogen, Ammonia (mg/l)



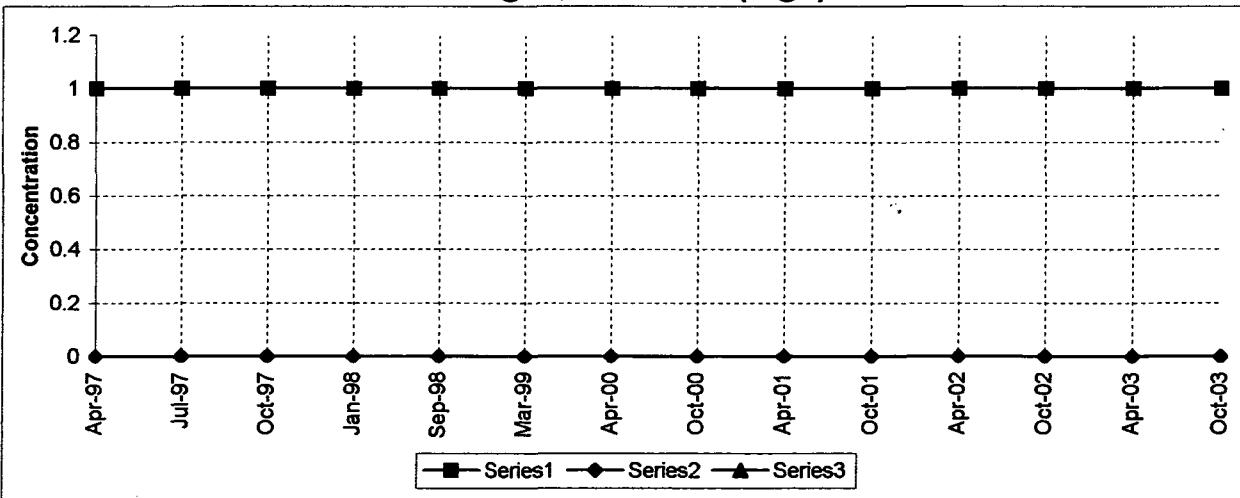
MW-92-5

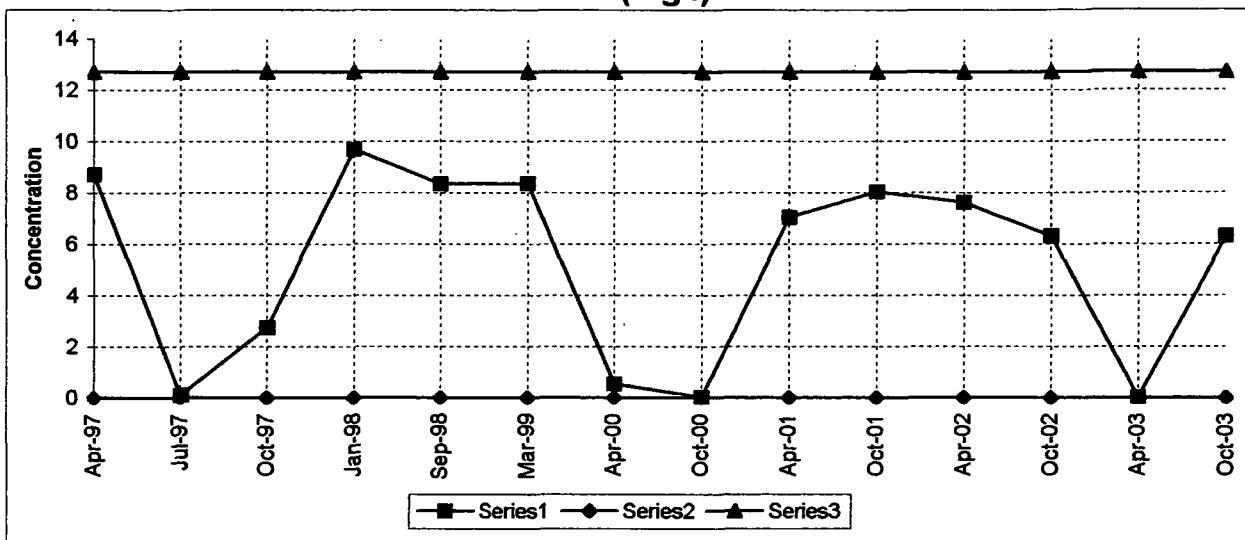
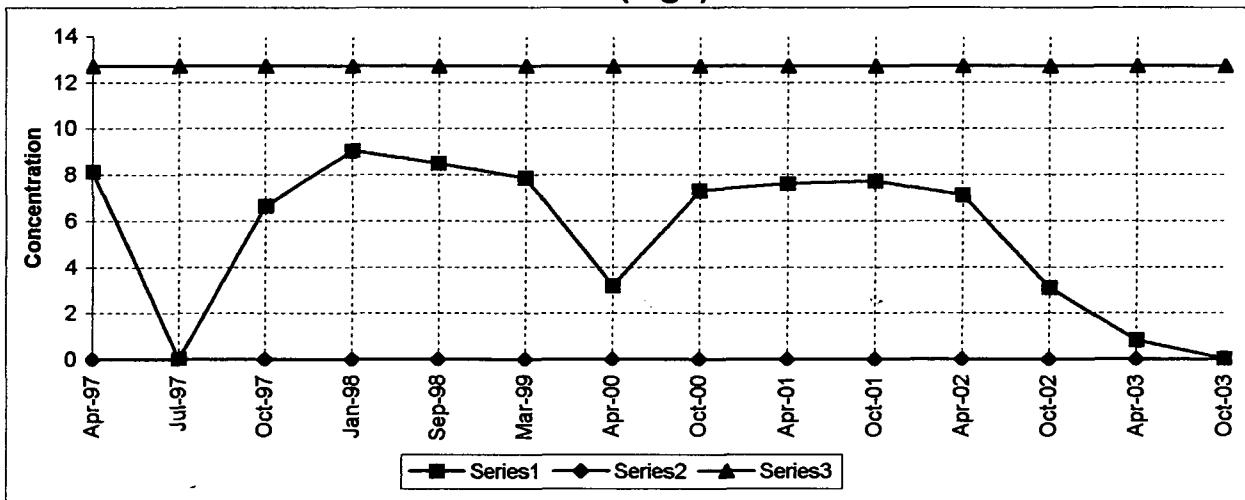
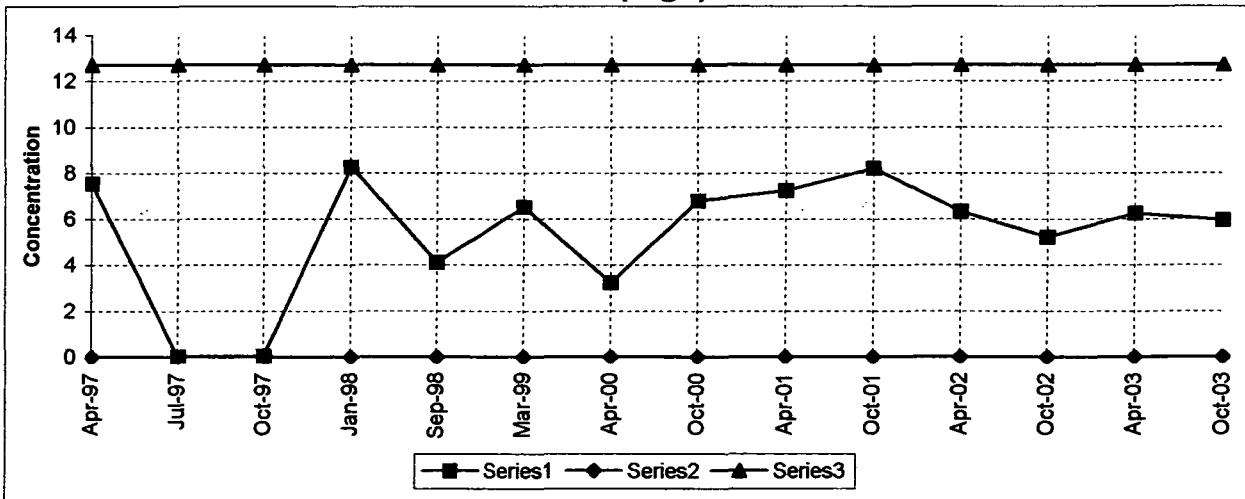
Nitrogen, Ammonia (mg/l)



MW-92-7

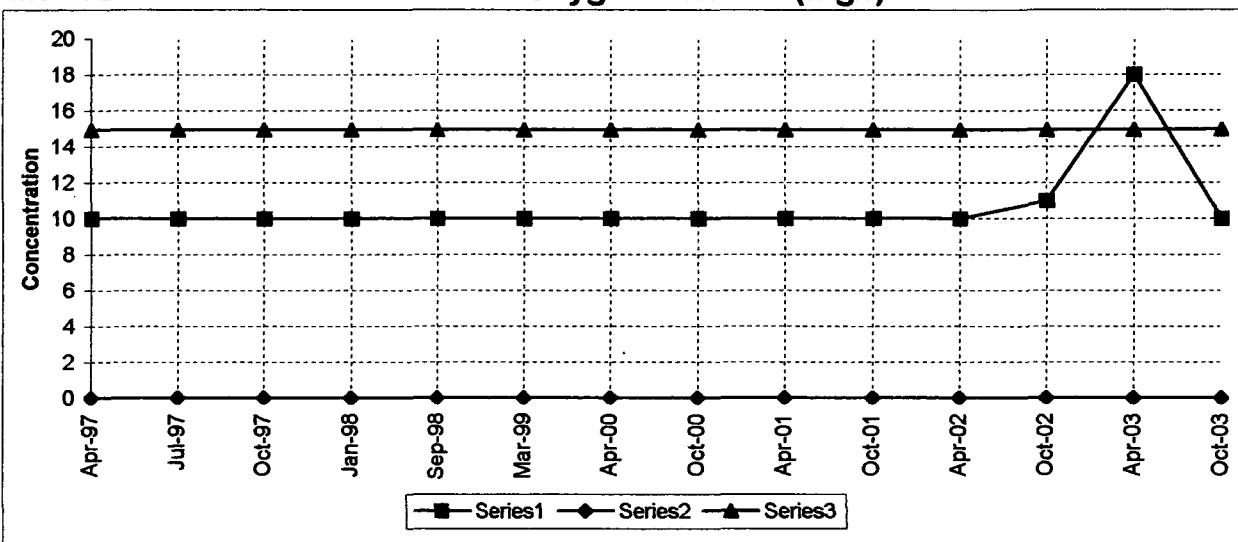
Nitrogen, Ammonia (mg/l)



MW-92-2**Iron (mg/l)****MW-92-5****Iron (mg/l)****MW-92-7****Iron (mg/l)**

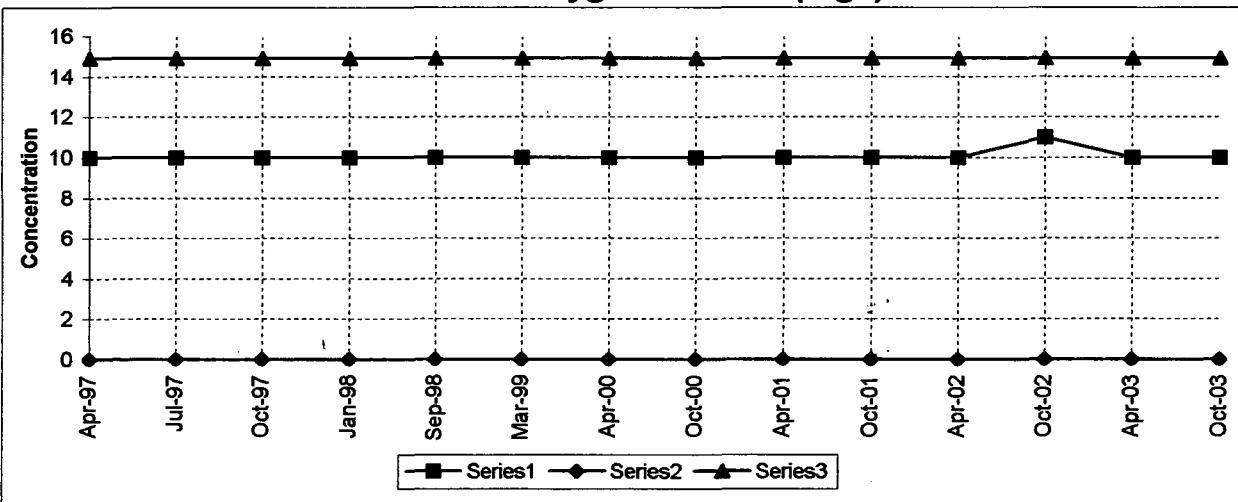
MW-92-2

Chemical Oxygen Demand (mg/l)



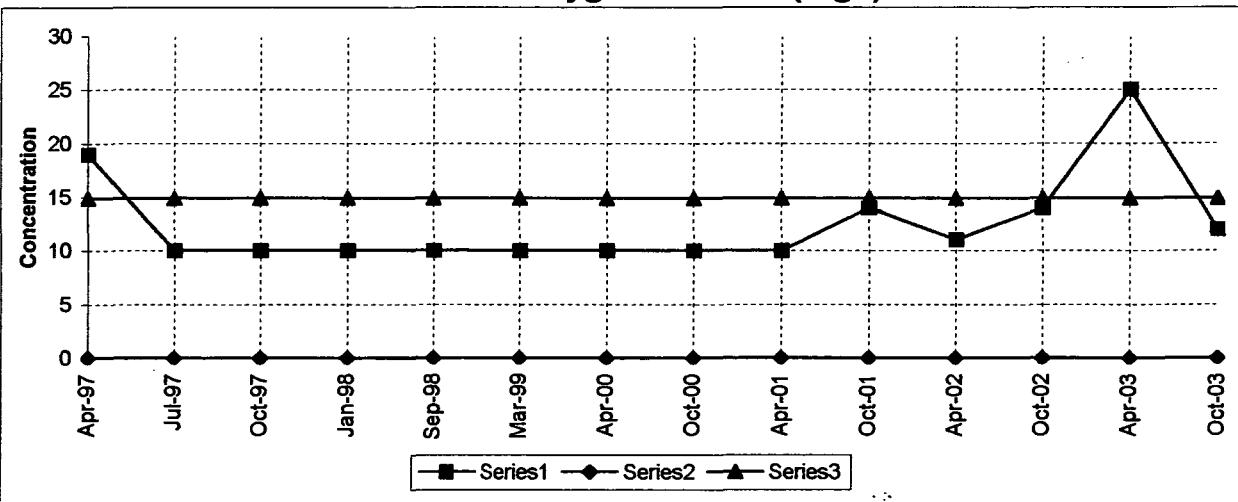
MW-92-5

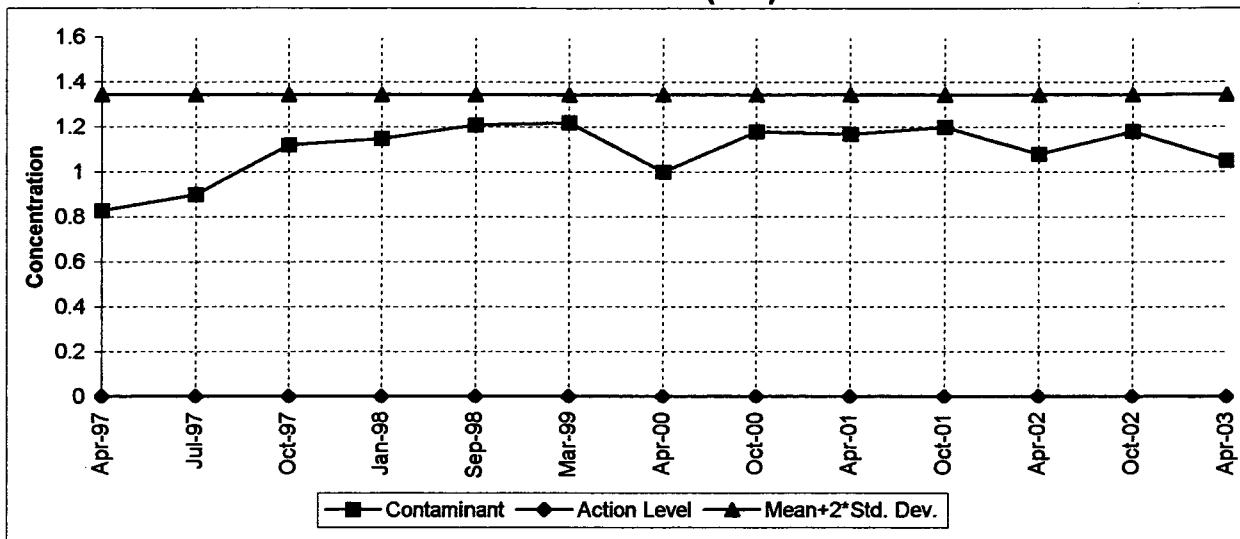
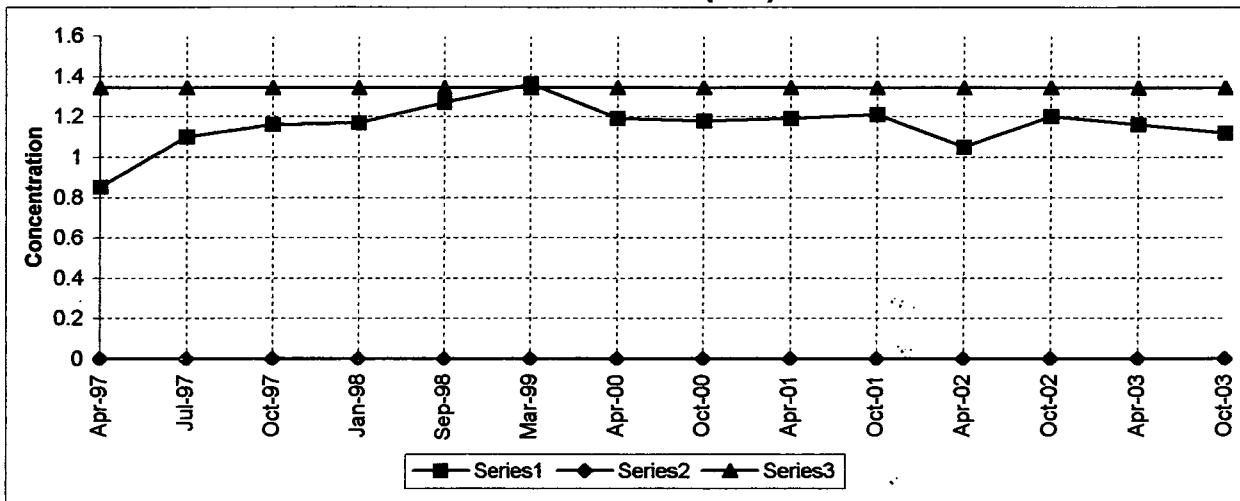
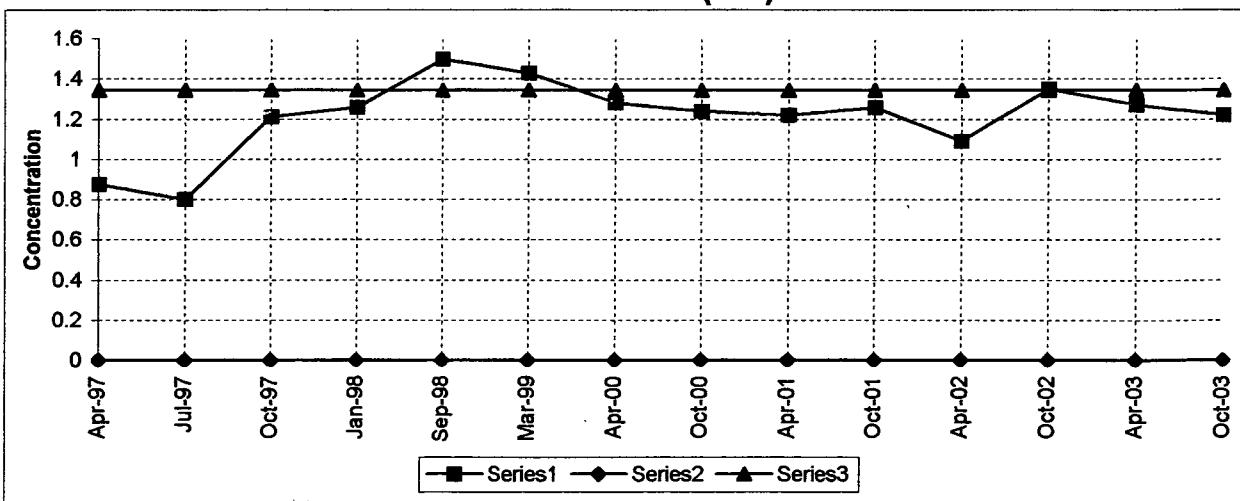
Chemical Oxygen Demand (mg/l)

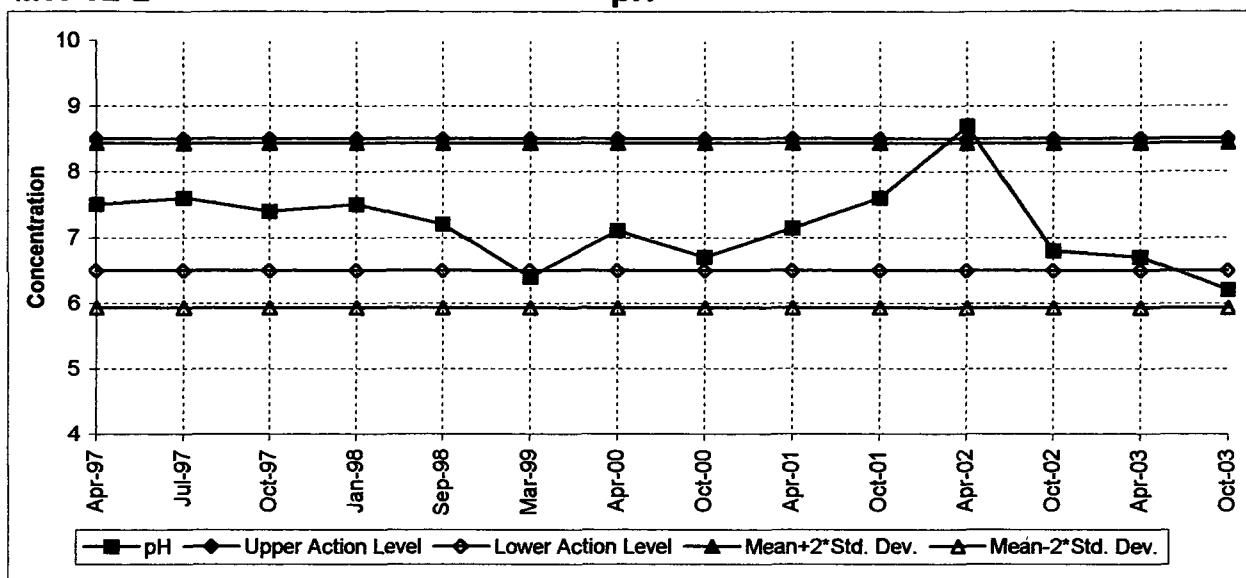
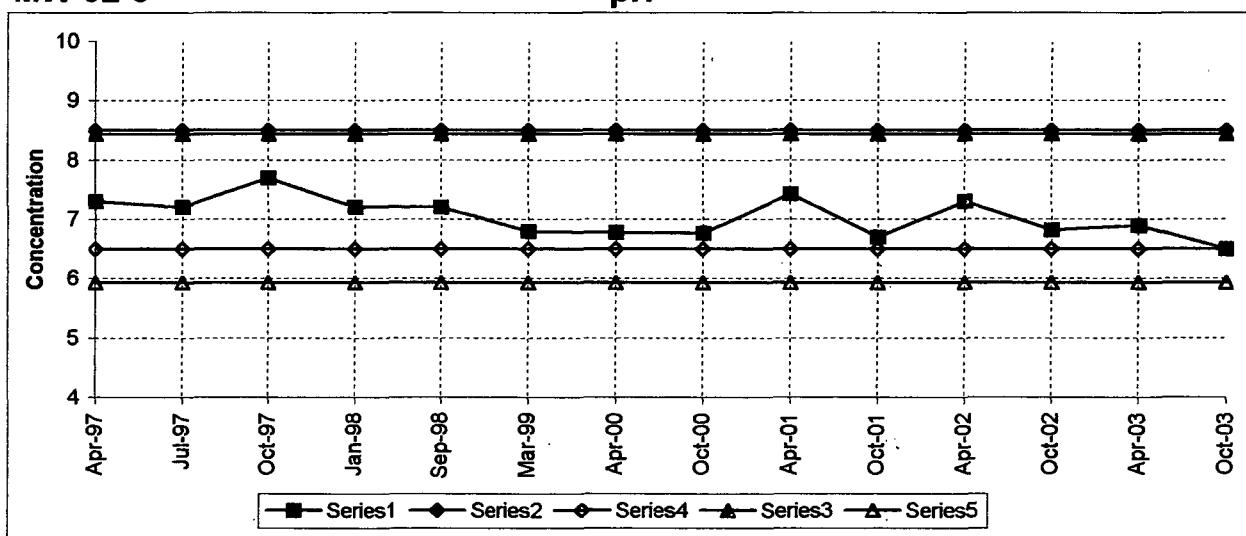
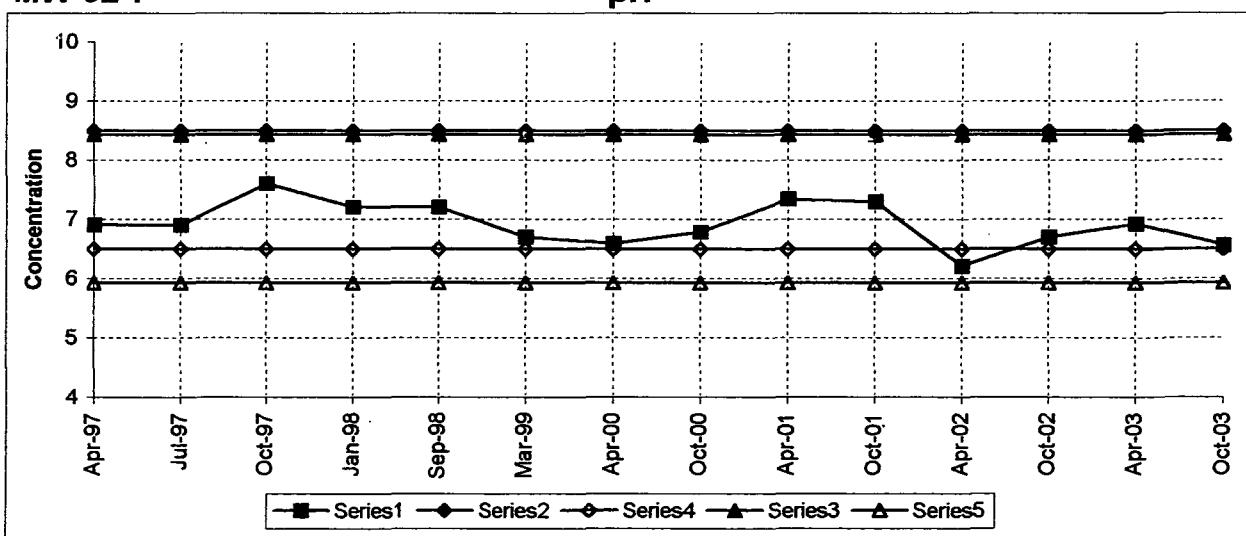


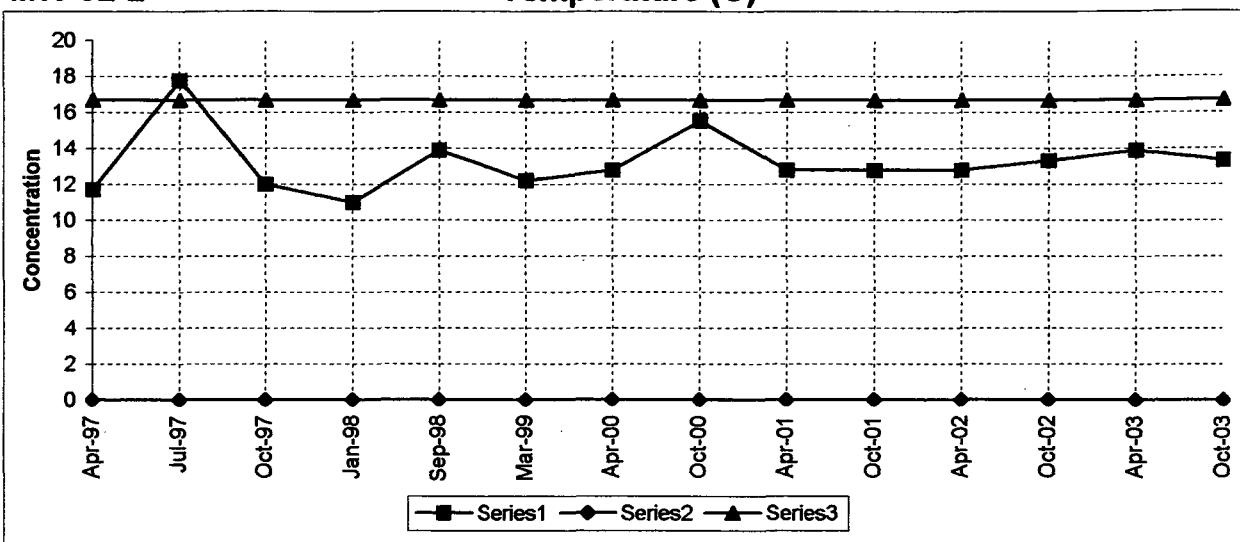
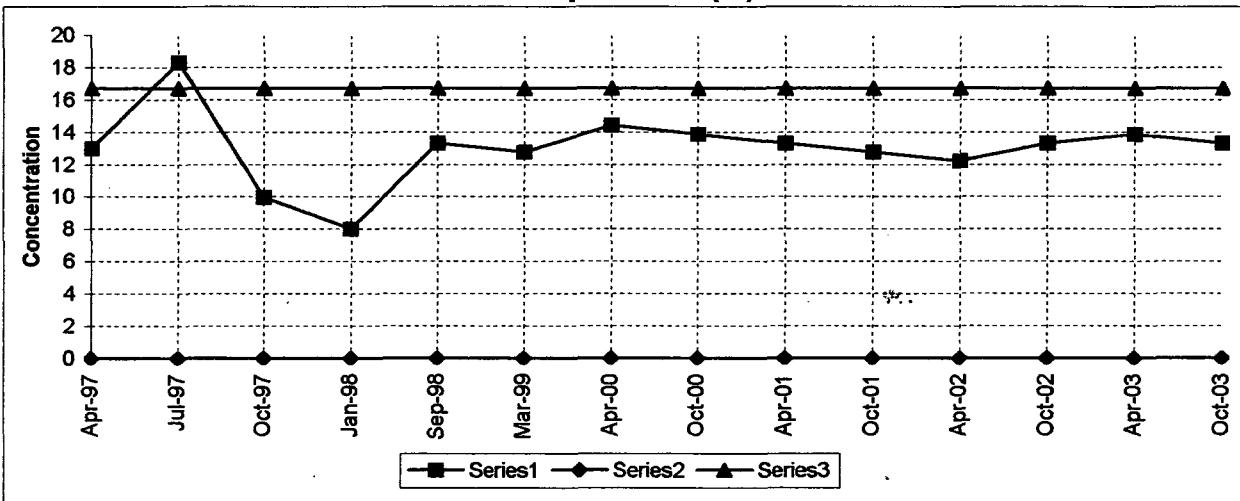
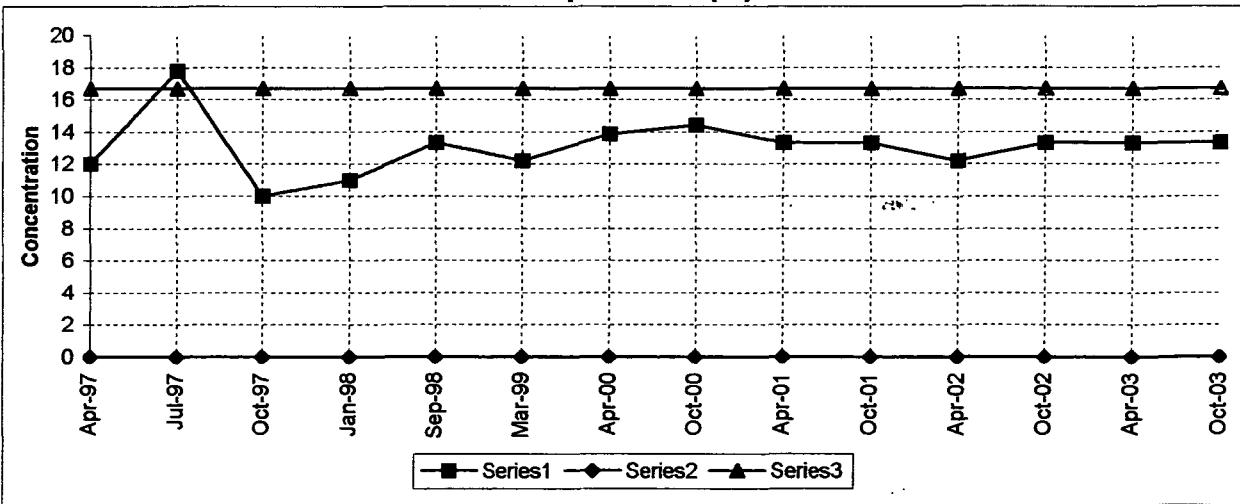
MW-92-7

Chemical Oxygen Demand (mg/l)



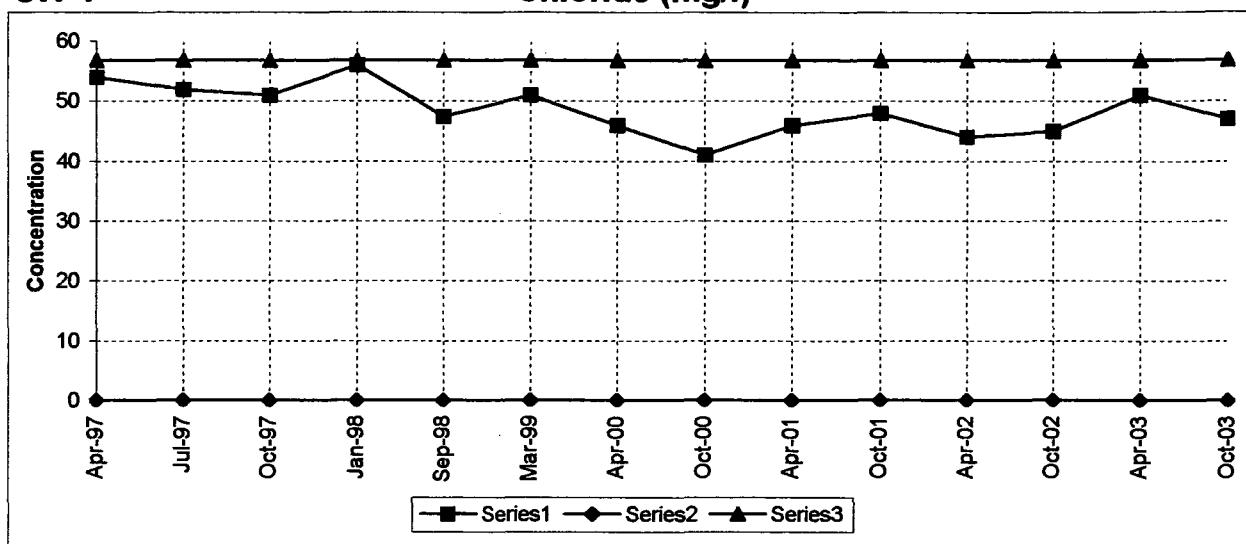
MW-92-2**Conductance (mS)****MW-92-5****Conductance (mS)****MW-92-7****Conductance (mS)**

MW-92-2**pH****MW-92-5****pH****MW-92-7****pH**

MW-92-2**Temperature (C)****MW-92-5****Temperature (C)****MW-92-7****Temperature (C)**

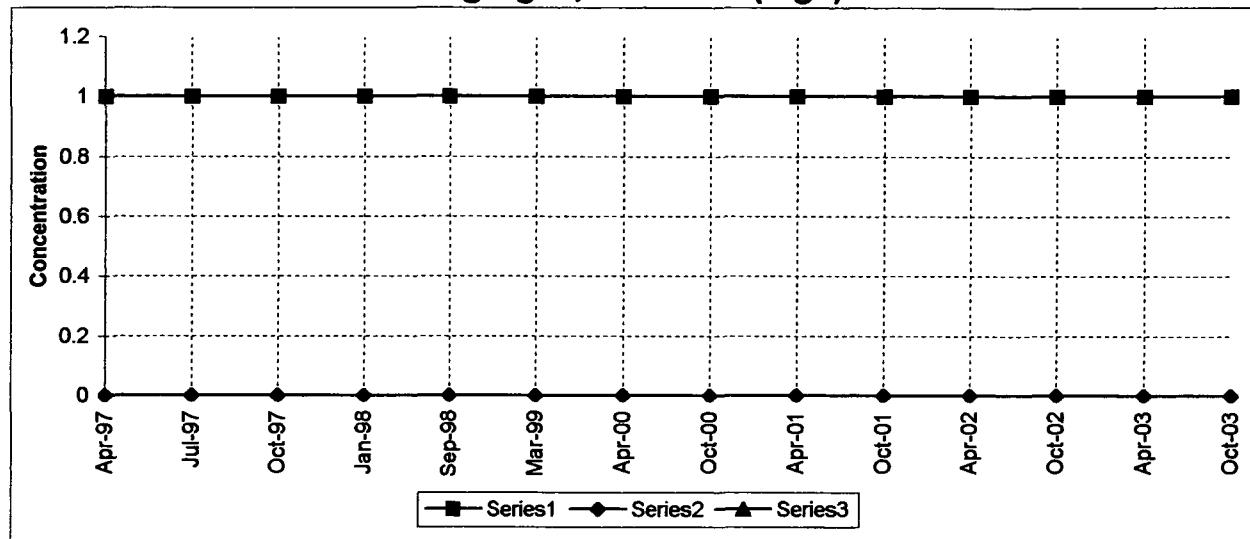
SW-1

Chloride (mg/l)



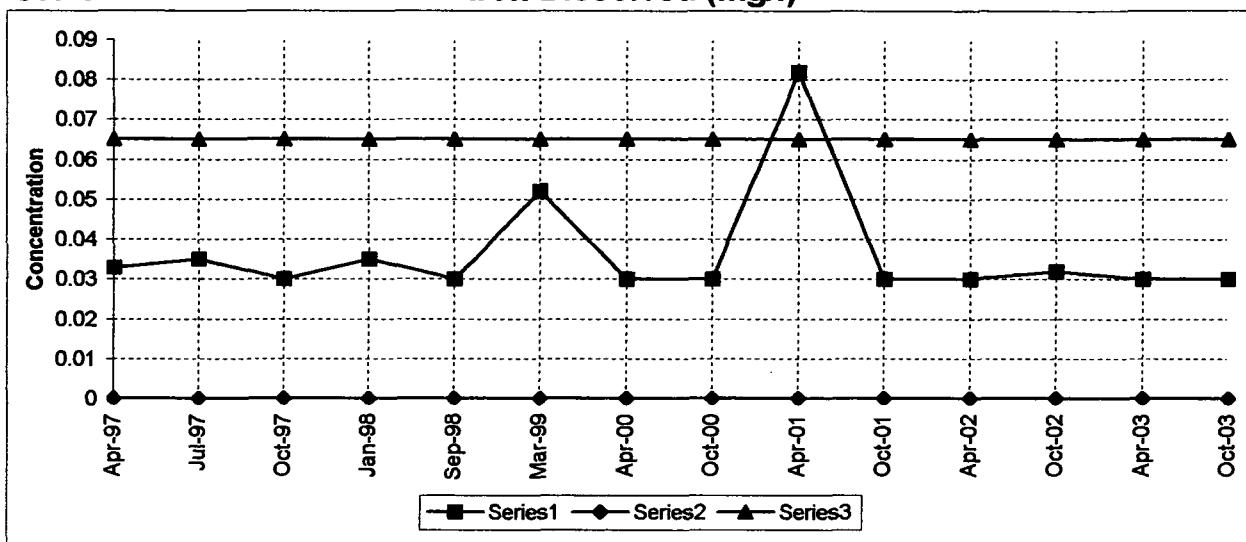
SW-1

Nigrogen, Ammonia (mg/l)



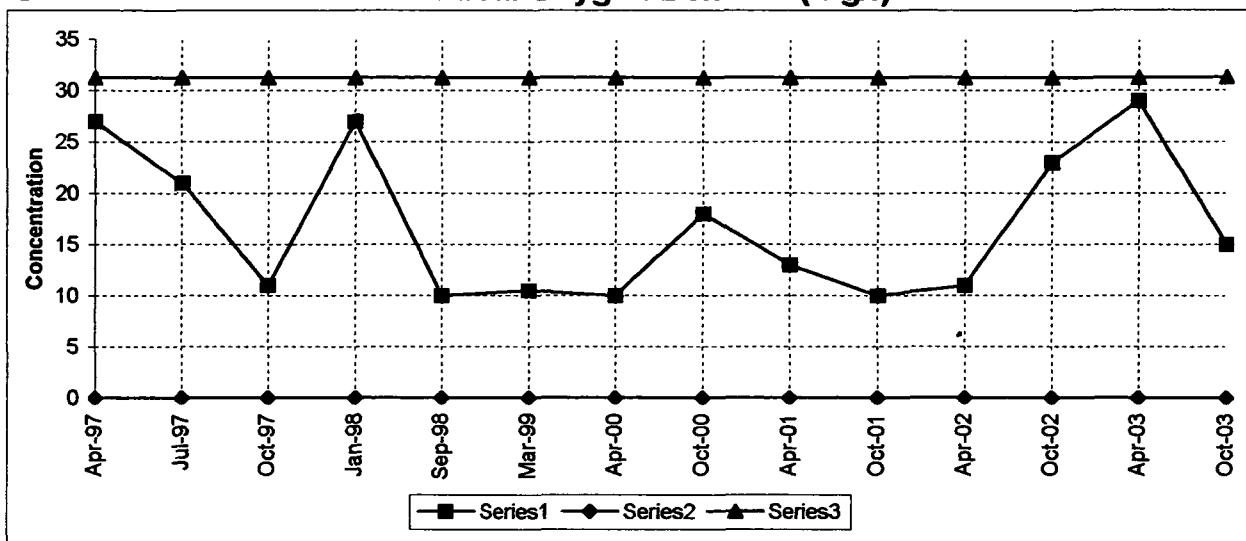
SW-1

Iron Dissolved (mg/l)



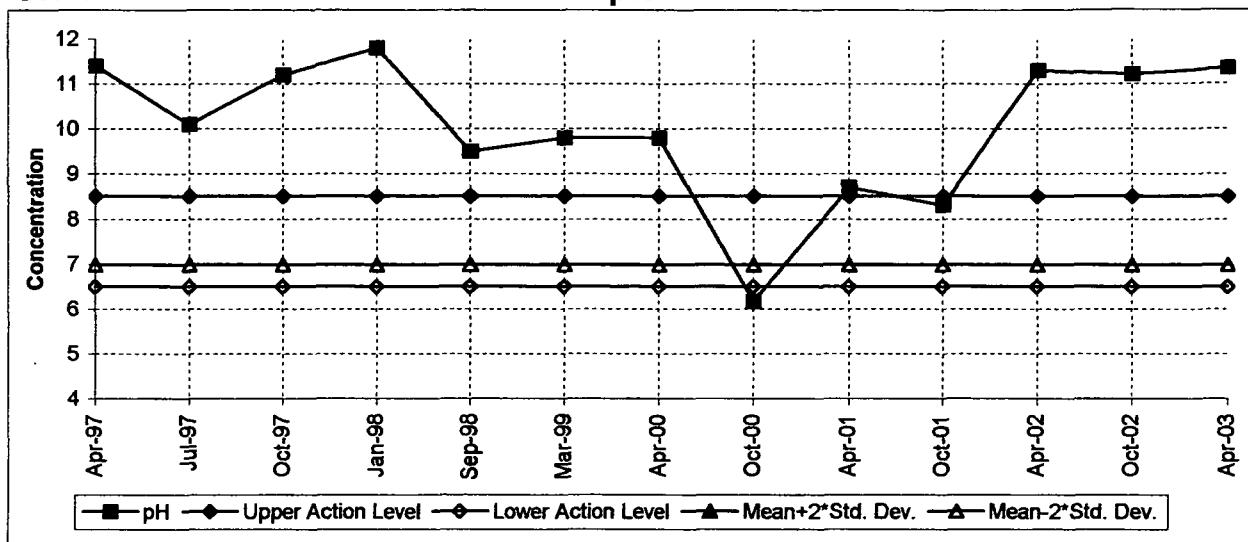
SW-1

Chemical Oxygen Demand (mg/l)



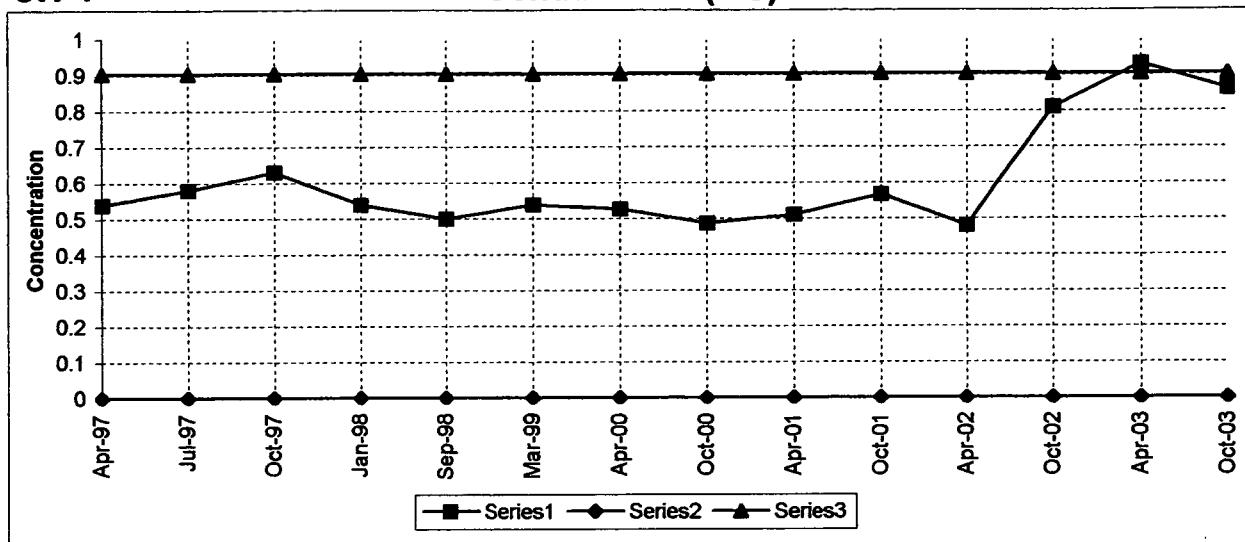
SW-1

pH



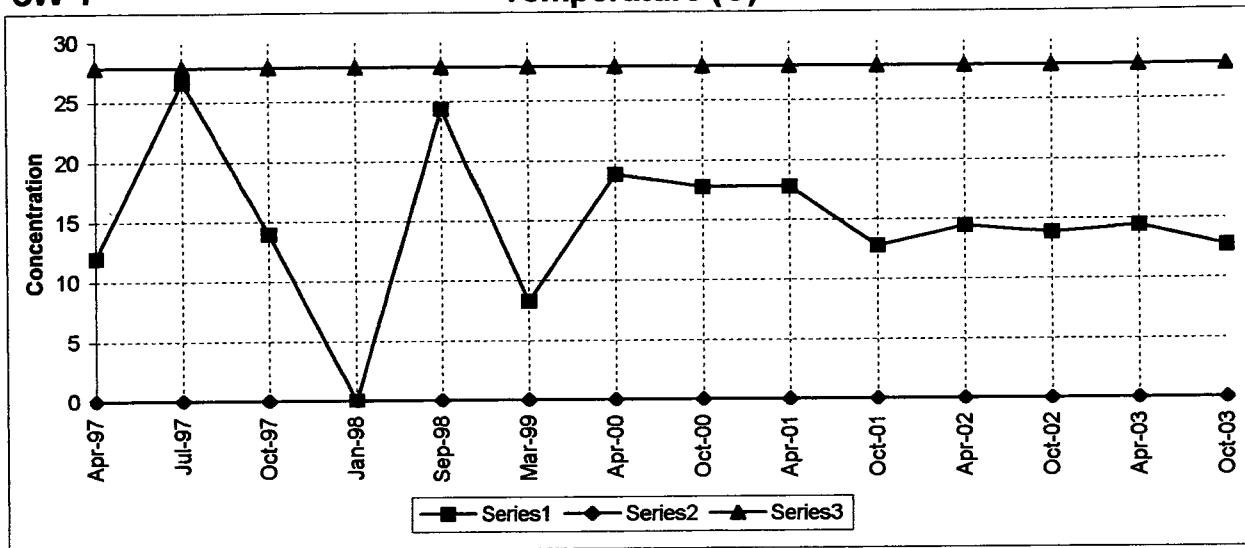
SW-1

Conductance (mS)



SW-1

Temperature (C)



IDNR SAMPLING FORMS

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-1 Upgradient _____ X
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 26.48' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 15:31</u> | <u>20.69</u> | _____ |
| After Purging | <u>4/24/03 @ 15:40</u> | <u>20.69</u> | _____ |
| Before Sampling | <u>4/24/03 @ 15:45</u> | <u>20.69</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 3
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

Bailer type Disposable Dedicated Bailer? Yes
Pump type _____ Dedicated Pump? _____
If not dedicated, method of cleaning _____

***D. FIELD MEASUREMENT**

Weather Conditions Rain 50s

Field Measurements (after stabilization):

| | | |
|---------------------|-------------------------------------|--------------------|
| Temperature | <u>55</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.68</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conditions | <u>1014</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-1R Upgradient _____ X
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 24.08' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 14:05</u> | <u>14.15</u> | _____ |
| After Purging | <u>4/24/03 @ 14:20</u> | <u>14.15</u> | _____ |
| Before Sampling | <u>4/24/03 @ 14:25</u> | <u>14.15</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 5
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Rain 50s

Field Measurements (after stabilization):

| | |
|--|--------------------|
| Temperature <u>55</u> | Units <u>°F</u> |
| Equipment used <u>Glass Thermometer</u> | |
| pH <u>6.77</u> | |
| Equipment used <u>pH Tester II</u> | |
| Specific Conductivity <u>1987</u> | Units <u>µs/cm</u> |
| Equipment used <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-2 Upgradient X
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 62.57' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 15:55</u> | <u>21.37</u> | _____ |
| After Purging | <u>4/24/03 @ 16:35</u> | <u>21.37</u> | _____ |
| Before Sampling | <u>4/24/03 @ 16:45</u> | <u>21.37</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 20
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Rain 50s

Field Measurements (after stabilization):

| | | |
|---------------------|-------------------------------------|--------------------|
| Temperature | <u>57</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.73</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conditions | <u>1051</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-3 Upgradient _____
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 25.61' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 13:15</u> | <u>22.54</u> | _____ |
| After Purging | <u>4/24/03 @ 13:35</u> | <u>22.54</u> | _____ |
| Before Sampling | <u>4/24/03 @ 13:40</u> | <u>22.54</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 3
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Rainy 50s

Field Measurements (after stabilization):

| | |
|--|--------------------|
| Temperature <u>56</u> | Units <u>°F</u> |
| Equipment used <u>Glass Thermometer</u> | |
| pH <u>6.63</u> | |
| Equipment used <u>pH Tester II</u> | |
| Specific Conditions <u>1315</u> | Units <u>µs/cm</u> |
| Equipment used <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-4 Upgradient _____
Downgradient X

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 29.65' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 11:15</u> | <u>24.32</u> | _____ |
| After Purging | <u>4/24/03 @ 11:35</u> | <u>24.32</u> | _____ |
| Before Sampling | <u>4/24/03 @ 11:40</u> | <u>24.32</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 3
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Rainy 50s

Field Measurements (after stabilization):

| | |
|--|--------------------|
| Temperature <u>56</u> | Units <u>°F</u> |
| Equipment used <u>Glass Thermometer</u> | |
| pH <u>7.53</u> | |
| Equipment used <u>pH Tester II</u> | |
| Specific Conditions <u>642</u> | Units <u>µs/cm</u> |
| Equipment used <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-5 Upgradient _____
Downgradient X

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 68.12' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 11:20</u> | <u>24.63</u> | _____ |
| After Purging | <u>4/24/03 @ 12:20</u> | <u>24.63</u> | _____ |
| Before Sampling | <u>4/24/03 @ 12:25</u> | <u>24.63</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 21
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | | | |
|--|-------------------|-------------------|------------|
| Bailer type | <u>Disposable</u> | Dedicated Bailer? | <u>Yes</u> |
| Pump type | _____ | Dedicated Pump? | _____ |
| If not dedicated, method of cleaning _____ | | | |

***D. FIELD MEASUREMENT**

Weather Conditions Rain 50s

Field Measurements (after stabilization):

| | | |
|---------------------|-------------------------------------|--------------------|
| Temperature | <u>57</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.89</u> | _____ |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conditions | <u>1162</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-6 Upgradient _____
Downgradient X

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 33.42' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 9:45</u> | <u>26.54</u> | _____ |
| After Purging | <u>4/24/03 @ 10:05</u> | <u>26.54</u> | _____ |
| Before Sampling | <u>4/24/03 @ 10:10</u> | <u>26.54</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 4
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Rain 50s

Field Measurements (after stabilization):

| | | |
|---------------------|-------------------------------------|--------------------|
| Temperature | <u>57</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.59</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conditions | <u>1719</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-7 Upgradient _____
Downgradient X

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 69.48' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>4/24/03 @ 9:55</u> | <u>26.70</u> | _____ |
| After Purging | <u>4/24/03 @ 10:55</u> | <u>26.70</u> | _____ |
| Before Sampling | <u>4/24/03 @ 11:05</u> | <u>26.70</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 21
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | | | |
|--|-------------------|-------------------|------------|
| Bailer type | <u>Disposable</u> | Dedicated Bailer? | <u>Yes</u> |
| Pump type | _____ | Dedicated Pump? | _____ |
| If not dedicated, method of cleaning _____ | | | |

***D. FIELD MEASUREMENT**

Weather Conditions Rainy 50s

Field Measurements (after stabilization):

| | | | |
|---------------------|-------------------------------------|-------|--------------|
| Temperature | <u>56</u> | Units | <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | | |
| pH | <u>6.93</u> | _____ | |
| Equipment used | <u>pH Tester II</u> | | |
| Specific Conditions | <u>1271</u> | Units | <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR
SURFACE WATER SAMPLING**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P
Surface Monitoring point No. SW-1 Date/Time 4/24/03 @ 11:05
Name of Person Sampling Wayne Shannon

A. TYPE OF MONITORING POINT

| | | | |
|----------------|-------------------------|-----------------|-------------------------|
| Stream | <u> </u> | Open Tile | <u> </u> |
| Road Ditch | <u> </u> | Tile with Riser | <u> </u> |
| Drainage Ditch | <u> </u> | Other | <u>Pond</u> |

B. PURPOSE OF MONITORING POINT

| | | | |
|-----------------|-------------------------|------------|-------------------------|
| Upstream | <u> </u> | Downstream | <u> </u> |
| Within Landfill | <u>X</u> | Other | <u> </u> |

C. MOINITORING POINT CONDITIONS

General description/condition of monitoring point _____

Was monitoring point dry? No Too little water to sample? No
Was water flowing? No If yes, estimate quantity _____
If yes, estimate depth _____

Was water discolored? No If yes, describe below.
Does water have odor? No If yes, describe below.
Was ground discolored? No If yes, describe below.
Litter present? No If yes, describe below.

Comments _____

D. FIELD MEASUREMENTS

Weather Conditions Rainy 50's

Field Measurements (after stabilization):

| | | | |
|---------------------|---------------------------------|-------|--------------|
| Temperature | <u>58</u> | Units | <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | | |
| pH | <u>11.34</u> | | |
| Equipment used | <u>pH Tester II</u> | | |
| Specific Conditions | <u>928</u> | Units | <u>µs/cm</u> |
| Equipment used | <u>Orion (make) 124 (model)</u> | | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and ground-water monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-1 Upgradient _____ Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 26.48' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|-------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 14:10</u> | <u>20.02</u> | _____ |
| After Purging | <u>10/30/03 @ 14:30</u> | <u>20.02</u> | _____ |
| Before Sampling | <u>10/30/03 @ 15:00</u> | <u>20.02</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 3
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Cloudy 60s

Field Measurements (after stabilization):

| | | |
|----------------------|-------------------------------------|--------------------|
| Temperature | <u>57</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>5.85</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conductance | <u>1048</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-1R Upgradient X
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 24.08' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|-------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 13:15</u> | <u>13.65</u> | _____ |
| After Purging | <u>10/30/03 @ 13:30</u> | <u>13.65</u> | _____ |
| Before Sampling | <u>10/30/03 @ 13:35</u> | <u>13.65</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 5
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

Bailer type Disposable Dedicated Bailer? Yes
Pump type _____ Dedicated Pump? _____
If not dedicated, method of cleaning _____

***D. FIELD MEASUREMENT**

Weather Conditions Cloudy 60s

Field Measurements (after stabilization):

| | | |
|----------------------|-------------------------------------|--------------------|
| Temperature | <u>57</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.27</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conductance | <u>1817</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-2 Upgradient X
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 62.57' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|-------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 14:10</u> | <u>20.69</u> | _____ |
| After Purging | <u>10/30/03 @ 14:50</u> | <u>20.69</u> | _____ |
| Before Sampling | <u>10/30/03 @ 15:20</u> | <u>20.69</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 20
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Cloudy 60s

Field Measurements (after stabilization):

| | |
|--|--------------------|
| Temperature <u>56</u> | Units <u>°F</u> |
| Equipment used <u>Glass Thermometer</u> | |
| pH <u>6.16</u> | |
| Equipment used <u>pH Tester II</u> | |
| Specific Conductance <u>1161</u> | Units <u>µs/cm</u> |
| Equipment used <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-3 Upgradient _____
Downgradient _____

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 25.61' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|-------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 11:45</u> | <u>22.29</u> | _____ |
| After Purging | <u>10/30/03 @ 12:05</u> | <u>22.29</u> | _____ |
| Before Sampling | <u>10/30/03 @ 12:15</u> | <u>22.29</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 3
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Sunny 50s

Field Measurements (after stabilization):

| | |
|--|--------------------|
| Temperature <u>56</u> | Units <u>°F</u> |
| Equipment used <u>Glass Thermometer</u> | |
| pH <u>6.17</u> | |
| Equipment used <u>pH Tester II</u> | |
| Specific Conductance <u>1226</u> | Units <u>µs/cm</u> |
| Equipment used <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-4 Upgradient _____
Downgradient

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? No Standing Water or Litter No
If no, explain Well was found knocked over If yes, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 29.65' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|-------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 11:05</u> | <u>24.13</u> | _____ |
| After Purging | <u>10/30/03 @ 11:30</u> | <u>24.13</u> | _____ |
| Before Sampling | <u>10/30/03 @ 11:35</u> | <u>24.13</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 3
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Sunny 50s

Field Measurements (after stabilization):

| | |
|--|--------------------|
| Temperature <u>57</u> | Units <u>°F</u> |
| Equipment used <u>Glass Thermometer</u> | |
| pH <u>6.74</u> | |
| Equipment used <u>pH Tester II</u> | |
| Specific Conductance <u>980</u> | Units <u>µs/cm</u> |
| Equipment used <u>Orion 124 (make & model)</u> | |

Comments Replaced with a new pressure cap.

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-5 Upgradient _____
Downgradient

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 68.12' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|-------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 10:15</u> | <u>24.39</u> | _____ |
| After Purging | <u>10/30/03 @ 10:50</u> | <u>24.39</u> | _____ |
| Before Sampling | <u>10/30/03 @ 10:55</u> | <u>24.39</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 21
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

| | |
|--|------------------------------|
| Bailer type <u>Disposable</u> | Dedicated Bailer? <u>Yes</u> |
| Pump type _____ | Dedicated Pump? _____ |
| If not dedicated, method of cleaning _____ | |

***D. FIELD MEASUREMENT**

Weather Conditions Sunny 50s

Field Measurements (after stabilization):

| | | |
|----------------------|-------------------------------------|--------------------|
| Temperature | <u>56</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.50</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conductance | <u>1129</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-6 Upgradient _____

Downgradient X

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____

Depth of well 33.42' Inside Casing Diameter (in inches) 2

Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 8:20</u> | <u>26.31</u> | _____ |
| After Purging | <u>10/30/03 @ 8:35</u> | <u>26.31</u> | _____ |
| Before Sampling | <u>10/30/03 @ 9:00</u> | <u>26.31</u> | _____ |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 4

No. of Well Volumes (based on current water level) 3

Was the well pumped/bailed dry? No

Equipment used:

Bailer type Disposable Dedicated Bailer? Yes

Pump type _____ Dedicated Pump? _____

If not dedicated, method of cleaning _____

***D. FIELD MEASUREMENT**

Weather Conditions Sunny 40s

Field Measurements (after stabilization):

Temperature 56 Units °F

Equipment used Glass Thermometer

pH 6.90

Equipment used pH Tester II

Specific Conductance 1192 Units µs/cm

Equipment used Orion 124 (make & model)

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P

Monitoring Well/Piezometer No. MW-92-7 Upgradient _____
Downgradient

Name of person sampling Wayne Shanon

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped? Yes Standing Water or Litter No
If no, explain _____

B. GROUNDWATER ELEVATIONN MEASUREMENT (+/- 0.01 FOOT, MSL)

Elevation : Top of inner well casing _____ Ground Elevation _____
Depth of well 69.48' Inside Casing Diameter (in inches) 2
Equipment Used Slope Water Level Indicator, Model 51453

Groundwater Level (+/- 0.01 foot below top of inner casing, MSL):

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|-----------------|------------------------|-------------------------|--------------------------|
| Before Purging | <u>10/30/03 @ 8:20</u> | | <u>26.49</u> |
| After Purging | <u>10/30/03 @ 9:50</u> | | <u>26.49</u> |
| Before Sampling | <u>10/30/03 @ 9:55</u> | | <u>26.49</u> |

***C. WELL PURGING**

Quantity of Water Removed from Well (gallons) 21
No. of Well Volumes (based on current water level) 3
Was the well pumped/bailed dry? No

Equipment used:

Bailer type Disposable Dedicated Bailer? Yes
Pump type _____ Dedicated Pump? _____
If not dedicated, method of cleaning _____

***D. FIELD MEASUREMENT**

Weather Conditions Sunny 50s

Field Measurements (after stabilization):

| | | |
|---------------------|-------------------------------------|--------------------|
| Temperature | <u>56</u> | Units <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | |
| pH | <u>6.56</u> | |
| Equipment used | <u>pH Tester II</u> | |
| Specific Conditions | <u>1227</u> | Units <u>µs/cm</u> |
| Equipment used | <u>Orion 124 (make & model)</u> | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

**FORM FOR
SURFACE WATER SAMPLING**

Site Name Concrete Supply Construction Rubble Site Permit No. 77-SDP-86P
Surface Monitoring point No. SW-1 Date/Time 10/30/03 @ 14:00
Name of Person Sampling Wayne Shannon

A. TYPE OF MONITORING POINT

| | | | |
|----------------|-------------------------|-----------------|-------------------------|
| Stream | <u> </u> | Open Tile | <u> </u> |
| Road Ditch | <u> </u> | Tile with Riser | <u> </u> |
| Drainage Ditch | <u> </u> | Other | <u>Pond</u> |

B. PURPOSE OF MONITORING POINT

| | | | |
|-----------------|-------------------------|------------|-------------------------|
| Upstream | <u> </u> | Downstream | <u> </u> |
| Within Landfill | <u>X</u> | Other | <u> </u> |

C. MOINITORING POINT CONDITIONS

General description/condition of monitoring point _____

Was monitoring point dry? No Too little water to sample? No
Was water flowing? No If yes, estimate quantity _____
If yes, estimate depth _____

Was water discolored? No If yes, describe below.
Does water have odor? No If yes, describe below.
Was ground discolored? No If yes, describe below.
Litter present? No If yes, describe below.

Comments _____

D. FIELD MEASUREMENTS

Weather Conditions Cloudy 60's

Field Measurements (after stabilization):

| | | | |
|----------------------|---------------------------------|-------|--------------|
| Temperature | <u>55</u> | Units | <u>°F</u> |
| Equipment used | <u>Glass Thermometer</u> | | |
| pH | <u>10.65</u> | | |
| Equipment used | <u>pH Tester II</u> | | |
| Specific Conductance | <u>860</u> | Units | <u>µs/cm</u> |
| Equipment used | <u>Orion (make) 124 (model)</u> | | |

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and ground-water monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

LABORATORY REPORTS

Accreditations:
Iowa DNR: 095
New Jersey DEP: IA001
Kansas DHE: E-10287

ANALYTICAL REPORT

April 30, 2003

Work Order: 13D1107

Page 1 of 3

| Report To: |
|--|
| Chandra Shekar Shekar Engineering 8938 Highland Oaks Drive Johnston, IA 50131 |

| Work Order Information |
|--|
| Date Received: 04/25/2003 7:42AM Collector: Shannon, Wayne Phone: 515-334-5062 PO Number: |

Project: Concrete Supply Landfill

Project Number: Concrete Supply

| Analyte | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|----------------------------------|-------------|-------|---------------|---------|---------------------------|-----------|
| 13D1107-01 MW-92-1 | | | Matrix: Water | | Collected: 04/24/03 15:45 | |
| Trichloroethylene | 7.3 ug/l | 1.0 | EPA 8260B | TVK | 04/29/03 21:06 | |
| Surrogate: Dibromofluoromethane | 105 % | | 81-130 | TVK | 04/29/03 21:06 | |
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | | 71-124 | TVK | 04/29/03 21:06 | |
| Surrogate: Toluene-d8 | 98.9 % | | 76-124 | TVK | 04/29/03 21:06 | |
| Surrogate: 4-Bromofluorobenzene | 88.6 % | | 79-123 | TVK | 04/29/03 21:06 | |
| Chemical Oxygen Demand | 17 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 40 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-02 MW-92-1R | | | Matrix: Water | | Collected: 04/24/03 14:25 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/29/03 21:45 | |
| Surrogate: Dibromofluoromethane | 98.9 % | | 81-130 | TVK | 04/29/03 21:45 | |
| Surrogate: 1,2-Dichloroethane-d4 | 100 % | | 71-124 | TVK | 04/29/03 21:45 | |
| Surrogate: Toluene-d8 | 96.4 % | | 76-124 | TVK | 04/29/03 21:45 | |
| Surrogate: 4-Bromofluorobenzene | 88.9 % | | 79-123 | TVK | 04/29/03 21:45 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 89 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-03 MW-92-2 | | | Matrix: Water | | Collected: 04/24/03 16:45 | |
| Trichloroethylene | 6.9 ug/l | 1.0 | EPA 8260B | TVK | 04/29/03 22:24 | |
| Surrogate: Dibromofluoromethane | 101 % | | 81-130 | TVK | 04/29/03 22:24 | |
| Surrogate: 1,2-Dichloroethane-d4 | 99.1 % | | 71-124 | TVK | 04/29/03 22:24 | |
| Surrogate: Toluene-d8 | 99.3 % | | 76-124 | TVK | 04/29/03 22:24 | |
| Surrogate: 4-Bromofluorobenzene | 90.3 % | | 79-123 | TVK | 04/29/03 22:24 | |
| Chemical Oxygen Demand | 18 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 36 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-04 MW-92-3 | | | Matrix: Water | | Collected: 04/24/03 13:40 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/29/03 23:03 | |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted.
MRL = Method Reporting Limit.

Shekar Engineering
8938 Highland Oaks Drive
Johnston, IA 50131

April 30, 2003
Page 2 of 3

Work Order: 13D1107

| Analyte | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|----------------------------------|-------------|-------|---------------|---------|---------------------------|-----------|
| 13D1107-04 MW-92-3 | | | Matrix: Water | | Collected: 04/24/03 13:40 | |
| Surrogate: Dibromofluoromethane | 99.5 % | | 81-130 | TVK | 04/29/03 23:03 | |
| Surrogate: 1,2-Dichloroethane-d4 | 78.9 % | | 71-124 | TVK | 04/29/03 23:03 | |
| Surrogate: Toluene-d8 | 97.6 % | | 76-124 | TVK | 04/29/03 23:03 | |
| Surrogate: 4-Bromofluorobenzene | 92.2 % | | 79-123 | TVK | 04/29/03 23:03 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 58 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-05 MW-92-4 | | | Matrix: Water | | Collected: 04/24/03 11:40 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/29/03 23:43 | |
| Surrogate: Dibromofluoromethane | 102 % | | 81-130 | TVK | 04/29/03 23:43 | |
| Surrogate: 1,2-Dichloroethane-d4 | 98.7 % | | 71-124 | TVK | 04/29/03 23:43 | |
| Surrogate: Toluene-d8 | 99.3 % | | 76-124 | TVK | 04/29/03 23:43 | |
| Surrogate: 4-Bromofluorobenzene | 87.6 % | | 79-123 | TVK | 04/29/03 23:43 | |
| Chemical Oxygen Demand | 24 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 64 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-06 MW-92-5 | | | Matrix: Water | | Collected: 04/24/03 12:25 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/30/03 0:22 | |
| Surrogate: Dibromofluoromethane | 103 % | | 81-130 | TVK | 04/30/03 0:22 | |
| Surrogate: 1,2-Dichloroethane-d4 | 98.4 % | | 71-124 | TVK | 04/30/03 0:22 | |
| Surrogate: Toluene-d8 | 98.0 % | | 76-124 | TVK | 04/30/03 0:22 | |
| Surrogate: 4-Bromofluorobenzene | 88.6 % | | 79-123 | TVK | 04/30/03 0:22 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 71 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | 0.824 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-07 MW-92-6 | | | Matrix: Water | | Collected: 04/24/03 10:10 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/30/03 1:01 | |
| Surrogate: Dibromofluoromethane | 101 % | | 81-130 | TVK | 04/30/03 1:01 | |
| Surrogate: 1,2-Dichloroethane-d4 | 78.8 % | | 71-124 | TVK | 04/30/03 1:01 | |
| Surrogate: Toluene-d8 | 96.2 % | | 76-124 | TVK | 04/30/03 1:01 | |
| Surrogate: 4-Bromofluorobenzene | 87.6 % | | 79-123 | TVK | 04/30/03 1:01 | |
| Chemical Oxygen Demand | 15 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 16:43 | |
| Chloride | 129 mg/l | 10 | EPA 9252 | SAA | 04/28/03 16:21 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 15:31 | |
| Iron, dissolved | 0.933 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 15:57 | |
| 13D1107-08 MW-92-7 | | | Matrix: Water | | Collected: 04/24/03 11:05 | |

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MRL = Method Reporting Limit.

Shekar Engineering
8938 Highland Oaks Drive
Johnston, IA 50131

April 30, 2003

Page 3 of 3

Work Order: 13D1107

| Analyte | | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|----------------------------------|-----------|-------------|-------|---------------|---------|------------|----------------|
| 13D1107-08 | MW-92-7 | | | Matrix: Water | | Collected: | 04/24/03 11:05 |
| Trichloroethylene | | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/30/03 | 1:39 |
| Surrogate: Dibromofluoromethane | | 101 % | | 81-130 | TVK | 04/30/03 | 1:39 |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.3 % | | 71-124 | TVK | 04/30/03 | 1:39 |
| Surrogate: Toluene-d8 | | 98.0 % | | 76-124 | TVK | 04/30/03 | 1:39 |
| Surrogate: 4-Bromofluorobenzene | | 89.2 % | | 79-123 | TVK | 04/30/03 | 1:39 |
| Chemical Oxygen Demand | | 25 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 | 16:43 |
| Chloride | | 58 mg/l | 10 | EPA 9252 | SAA | 04/28/03 | 16:21 |
| Nitrogen, Ammonia | | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 | 15:31 |
| Iron, dissolved | | 6.24 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 | 15:57 |
| 13D1107-09 | SW-1 | | | Matrix: Water | | Collected: | 04/24/03 00:00 |
| Trichloroethylene | | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/30/03 | 2:18 |
| Surrogate: Dibromofluoromethane | | 104 % | | 81-130 | TVK | 04/30/03 | 2:18 |
| Surrogate: 1,2-Dichloroethane-d4 | | 99.2 % | | 71-124 | TVK | 04/30/03 | 2:18 |
| Surrogate: Toluene-d8 | | 97.8 % | | 76-124 | TVK | 04/30/03 | 2:18 |
| Surrogate: 4-Bromofluorobenzene | | 89.9 % | | 79-123 | TVK | 04/30/03 | 2:18 |
| Chemical Oxygen Demand | | 29 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 | 16:43 |
| Chloride | | 51 mg/l | 10 | EPA 9252 | SAA | 04/28/03 | 16:21 |
| Nitrogen, Ammonia | | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 | 15:31 |
| Iron, dissolved | | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 | 15:57 |
| 13D1107-10 | Duplicate | | | Matrix: Water | | Collected: | 04/24/03 00:00 |
| Trichloroethylene | | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 04/30/03 | 2:56 |
| Surrogate: Dibromofluoromethane | | 103 % | | 81-130 | TVK | 04/30/03 | 2:56 |
| Surrogate: 1,2-Dichloroethane-d4 | | 92.3 % | | 71-124 | TVK | 04/30/03 | 2:56 |
| Surrogate: Toluene-d8 | | 99.2 % | | 76-124 | TVK | 04/30/03 | 2:56 |
| Surrogate: 4-Bromofluorobenzene | | 90.6 % | | 79-123 | TVK | 04/30/03 | 2:56 |
| Chemical Oxygen Demand | | <10 mg/l | 10 | EPA 410.4 | SAA | 04/28/03 | 16:43 |
| Chloride | | 96 mg/l | 10 | EPA 9252 | SAA | 04/28/03 | 16:21 |
| Nitrogen, Ammonia | | <1.0 mg/l | 1.0 | SM 4500-NH3 F | MAQ | 04/29/03 | 15:31 |
| Iron, dissolved | | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 04/28/03 | 15:57 |

End of Report

Keystone Laboratories, Inc.

 Jeffrey King, Ph.D.
 Laboratory Director

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 MRL = Method Reporting Limit.

CHAIN OF CUSTODY RECORD



600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480

1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE ____ OF ____

PRINT OR TYPE INFORMATION BELOW

SAMPLER: Wayne Shannon
 SITE NAME: Concrete Supply
 ADDRESS: 1108 SE 30th St.
 CITY/ST/ZIP: Des Moines, IA
 PHONE: _____

REPORT TO:
 NAME: Chandra Shekar
 COMPANY NAME: Shekar Engineering
 ADDRESS: P.O. Box 3625
 CITY/ST/ZIP: Des Moines, IA
 PHONE: 334-5062
 FAX: _____

BILL TO:
 NAME: _____
 COMPANY NAME: _____
 ADDRESS: _____
 CITY/ST/ZIP: _____
 PHONE: _____
 Keystone Quote No.: _____
 (If Applicable)

| CLIENT SAMPLE NUMBER | DATE | TIME | SAMPLE LOCATION | NO. OF CONTAINERS | MATRIX | GRAB/COMPOSITE | ANALYSES REQUIRED | | | | | | LAB USE ONLY | | |
|----------------------|--------|-------|-----------------|-------------------|------------------|----------------|-------------------|---|-------------------|--|--|--|---------------------------|-------------------------------------|--------------------------|
| | | | | | | | Landfill | E | Trichloroethylene | | | | Laboratory Work Order No. | Sample Temperature Upon Receipt: °C | Laboratory Sample Number |
| MW-92-1 | 24 Apr | 15:45 | | 6 | H ₂ O | G | X | X | | | | | 13D1107 | | 01 |
| MW-92-1 R | | 14:25 | | 1 | | | | | | | | | | | 02 |
| MW-92-2 | | 16:45 | | 1 | | | | | | | | | | | 03 |
| MW-92-3 | | 13:40 | | 1 | | | | | | | | | | | 04 |
| MW-92-4 | | 11:40 | | 1 | | | | | | | | | | | 05 |
| MW-92-5 | | 12:25 | | 1 | | | | | | | | | | | 06 |
| MW-92-6 | | 10:10 | | 1 | | | | | | | | | | | 07 |
| MW-92-7 | | 11:05 | | 1 | | | | | | | | | | | 08 |
| SW-1 | | | | 1 | | | | | | | | | | | 09 |
| DUPPLICATE | ✓ | — | | 1 | | | | | | | | | | | 10 |

| | | | | | | | |
|---|----------------------------|--|------------------------------|--------------|-----------------------------------|-------------------------------|---------------------------------|
| Relinquished by: (Signature) <i>Wayne</i> | Date 25 Apr. 03 Time | Received by: (Signature) | Date | Turn-Around: | <input type="checkbox"/> Standard | <input type="checkbox"/> Rush | Contact Lab Prior to Submission |
| Relinquished by: (Signature) | Date | Received for Lab by: (Signature) <i>Chandra</i> | Date 4/25/03 Time 7:42 | Remarks: | | | |
| Original - Return with Report • Yellow - Lab Copy • Pink - Sampler Copy | | | | | | | |

Accreditations:
Iowa DNR: 095
New Jersey DEP: IA001
Kansas DHE: E-10287

ANALYTICAL REPORT

November 13, 2003

Work Order: 13J1321

Page 1 of 4

| Report To: |
|--|
| Chandra Shekar Shekar Engineering 8938 Highland Oaks Drive Johnston, IA 50131 |

| Work Order Information |
|--|
| Date Received: 10/31/2003 6:32AM Collector: Shannon, Wayne Phone: 515-334-5062 PO Number: |

Project: Concrete Supply Landfill

Project Number: Concrete Supply

| Analyte | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|----------------------------------|-------------|-------|---------------|---------|---------------------------|-----------|
| 13J1321-01 MW-92-1R | | | Matrix: Water | | Collected: 10/30/03 13:35 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 14:52 | |
| Surrogate: Dibromofluoromethane | 102 % | | 78-124 | TVK | 11/03/03 14:52 | |
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | | 72-122 | TVK | 11/03/03 14:52 | |
| Surrogate: Toluene-d8 | 138 % | | 84-120 | TVK | 11/03/03 14:52 S-GC | |
| Surrogate: 4-Bromofluorobenzene | 98.5 % | | 80-124 | TVK | 11/03/03 14:52 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 68 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | 0.026 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-02 MW-92-1 | | | Matrix: Water | | Collected: 10/30/03 15:00 | |
| Trichloroethylene | 7.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 15:33 | |
| Surrogate: Dibromofluoromethane | 96.5 % | | 78-124 | TVK | 11/03/03 15:33 | |
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | | 72-122 | TVK | 11/03/03 15:33 | |
| Surrogate: Toluene-d8 | 90.1 % | | 84-120 | TVK | 11/03/03 15:33 | |
| Surrogate: 4-Bromofluorobenzene | 98.6 % | | 80-124 | TVK | 11/03/03 15:33 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 32 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | 0.051 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-03 MW-92-2 | | | Matrix: Water | | Collected: 10/30/03 15:20 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 16:14 | |
| Surrogate: Dibromofluoromethane | 102 % | | 78-124 | TVK | 11/03/03 16:14 | |
| Surrogate: 1,2-Dichloroethane-d4 | 123 % | | 72-122 | TVK | 11/03/03 16:14 S-GC | |
| Surrogate: Toluene-d8 | 90.9 % | | 84-120 | TVK | 11/03/03 16:14 | |
| Surrogate: 4-Bromofluorobenzene | 98.6 % | | 80-124 | TVK | 11/03/03 16:14 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 70 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |

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MRL = Method Reporting Limit.

Shekar Engineering
8938 Highland Oaks Drive
Johnston, IA 50131

November 13, 2003

Page 2 of 4

Work Order: 13J1321

| Analyte | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|----------------------------------|-------------|-------|---------------|---------|---------------------------|-----------|
| 13J1321-03 MW-92-2 | | | Matrix: Water | | Collected: 10/30/03 15:20 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | <0.010 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | 6.29 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-04 MW-92-3 | | | Matrix: Water | | Collected: 10/30/03 12:15 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 16:55 | |
| Surrogate: Dibromofluoromethane | 101 % | | 78-124 | TVK | 11/03/03 16:55 | |
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | | 72-122 | TVK | 11/03/03 16:55 | |
| Surrogate: Toluene-d8 | 113 % | | 84-120 | TVK | 11/03/03 16:55 | |
| Surrogate: 4-Bromofluorobenzene | 101 % | | 80-124 | TVK | 11/03/03 16:55 | |
| Chemical Oxygen Demand | 22 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 44 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | 0.017 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-05 MW-92-4 | | | Matrix: Water | | Collected: 10/30/03 11:35 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 17:36 | |
| Surrogate: Dibromofluoromethane | 94.3 % | | 78-124 | TVK | 11/03/03 17:36 | |
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | | 72-122 | TVK | 11/03/03 17:36 | |
| Surrogate: Toluene-d8 | 87.7 % | | 84-120 | TVK | 11/03/03 17:36 | |
| Surrogate: 4-Bromofluorobenzene | 95.3 % | | 80-124 | TVK | 11/03/03 17:36 | |
| Chemical Oxygen Demand | 24 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 117 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | <0.050 mg/l | 0.050 | EPA 9020 | DES | 11/04/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-06 MW-92-5 | | | Matrix: Water | | Collected: 10/30/03 10:55 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 18:17 | |
| Surrogate: Dibromofluoromethane | 93.6 % | | 78-124 | TVK | 11/03/03 18:17 | |
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | | 72-122 | TVK | 11/03/03 18:17 | |
| Surrogate: Toluene-d8 | 87.3 % | | 84-120 | TVK | 11/03/03 18:17 | |
| Surrogate: 4-Bromofluorobenzene | 98.2 % | | 80-124 | TVK | 11/03/03 18:17 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 66 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | 0.108 mg/l | 0.010 | EPA 9020 | DES | 11/04/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |

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Shekar Engineering
8938 Highland Oaks Drive
Johnston, IA 50131

November 13, 2003

Page 3 of 4

Work Order: 13J1321

| Analyte | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|----------------------------------|-------------|-------|---------------|---------|---------------------------|-----------|
| 13J1321-07 MW-92-6 | | | Matrix: Water | | Collected: 10/30/03 09:05 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 18:58 | |
| Surrogate: Dibromofluoromethane | 92.7 % | | 78-124 | TVK | 11/03/03 18:58 | |
| Surrogate: 1,2-Dichloroethane-d4 | 100 % | | 72-122 | TVK | 11/03/03 18:58 | |
| Surrogate: Toluene-d8 | 86.5 % | | 84-120 | TVK | 11/03/03 18:58 | |
| Surrogate: 4-Bromofluorobenzene | 95.8 % | | 80-124 | TVK | 11/03/03 18:58 | |
| Chemical Oxygen Demand | 14 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 113 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | <0.010 mg/l | 0.010 | EPA 9020 | DES | 11/04/03 0:00 | |
| Iron, dissolved | 0.075 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-08 MW-92-7 | | | Matrix: Water | | Collected: 10/30/03 09:55 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 19:40 | |
| Surrogate: Dibromofluoromethane | 90.4 % | | 78-124 | TVK | 11/03/03 19:40 | |
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | | 72-122 | TVK | 11/03/03 19:40 | |
| Surrogate: Toluene-d8 | 88.3 % | | 84-120 | TVK | 11/03/03 19:40 | |
| Surrogate: 4-Bromofluorobenzene | 103 % | | 80-124 | TVK | 11/03/03 19:40 | |
| Chemical Oxygen Demand | 12 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 51 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | 0.023 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | 5.96 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-09 SW-1 | | | Matrix: Water | | Collected: 10/30/03 14:00 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 20:21 | |
| Surrogate: Dibromofluoromethane | 90.1 % | | 78-124 | TVK | 11/03/03 20:21 | |
| Surrogate: 1,2-Dichloroethane-d4 | 98.2 % | | 72-122 | TVK | 11/03/03 20:21 | |
| Surrogate: Toluene-d8 | 88.0 % | | 84-120 | TVK | 11/03/03 20:21 | |
| Surrogate: 4-Bromofluorobenzene | 101 % | | 80-124 | TVK | 11/03/03 20:21 | |
| Chemical Oxygen Demand | 15 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 47 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | <0.010 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |
| 13J1321-10 Duplicate | | | Matrix: Water | | Collected: 10/30/03 00:00 | |
| Trichloroethylene | <1.0 ug/l | 1.0 | EPA 8260B | TVK | 11/03/03 21:02 | |
| Surrogate: Dibromofluoromethane | 91.3 % | | 78-124 | TVK | 11/03/03 21:02 | |
| Surrogate: 1,2-Dichloroethane-d4 | 99.1 % | | 72-122 | TVK | 11/03/03 21:02 | |
| Surrogate: Toluene-d8 | 86.8 % | | 84-120 | TVK | 11/03/03 21:02 | |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted.
MRL = Method Reporting Limit.

Shekar Engineering
8938 Highland Oaks Drive
Johnston, IA 50131

November 13, 2003

Page 4 of 4

Work Order: 13J1321

| Analyte | Result | MRL | Method | Analyst | Analyzed | Qualifier |
|---------------------------------|-------------|-------|---------------|---------|---------------------------|-----------|
| 13J1321-10 Duplicate | | | Matrix: Water | | Collected: 10/30/03 00:00 | |
| Surrogate: 4-Bromofluorobenzene | 96.7 % | | 80-124 | TVK | 11/03/03 21:02 | |
| Chemical Oxygen Demand | <10 mg/l | 10 | EPA 410.4 | SAA | 11/04/03 16:52 | |
| Chloride | 39 mg/l | 10 | EPA 9252 | SAA | 11/03/03 16:18 | |
| Nitrogen, Ammonia | <1.0 mg/l | 1.0 | SM 4500-NH3 F | SAA | 11/11/03 11:04 | |
| Phenols, total | <0.100 mg/l | 0.100 | EPA 9065 | LKM | 11/07/03 10:40 | |
| Total Organic Halogens (TOX) | 0.015 mg/l | 0.010 | EPA 9020 | DES | 11/03/03 0:00 | |
| Iron, dissolved | <0.030 mg/l | 0.030 | EPA 6010B | LAR | 11/03/03 14:37 | |

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

End of Report

Keystone Laboratories, Inc.

Jeffrey King, Ph.D.
Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted.
MRL = Method Reporting Limit.

CHAIN OF CUSTODY RECORD



600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

3012 Ansborough Ave.
Waterloo, IA 50701
Phone: 319-235-4440
Fax: 319-235-2480

1304 Adams
Kansas City, KS 66103
Phone: 913-321-7856
Fax: 913-321-7937

PAGE ____ OF ____

PRINT OR TYPE INFORMATION BELOW

SAMPLER: Wayne Shannon
SITE NAME: Concrete Supply
ADDRESS: E. 30th & Maury
CITY/ST/ZIP: Des Moines
PHONE:

REPORT TO:
NAME: Chandra Shekar
COMPANY NAME: Shekar Eng
ADDRESS: P.O. Box 3625
CITY/ST/ZIP: Des Moines
PHONE: 334-5062
FAX:

BILL TO:
NAME: _____
COMPANY NAME: _____
ADDRESS: _____
CITY/ST/ZIP: _____
PHONE: _____
Keystone Quote No.: _____
(If Applicable)

| CLIENT SAMPLE NUMBER | DATE | TIME | SAMPLE LOCATION | NO. OF CONTAINERS | MATRIX | GRAB/COMPOSITE | ANALYSES REQUIRED | | | | | LAB USE ONLY | | |
|-------------------------|-----------|-------|-----------------|-------------------|--------|----------------|-------------------|---|---|---|---|--------------|---|---|
| | | | | | | | E | F | G | H | I | J | K | L |
| MW-92-1R | 30 Oct 03 | 13:35 | | 8 | H, O | G | X | X | X | | | | | |
| MW-92-1 | | 15:00 | | 1 | | | | | | | | | | |
| MW-92-2 | | 15:20 | | 1 | | | | | | | | | | |
| MW-92-3 | | 12:15 | | 1 | | | | | | | | | | |
| MW-92-4 | | 11:35 | | 1 | | | | | | | | | | |
| MW-92-5 | | 10:55 | | 1 | | | | | | | | | | |
| MW-92-6 | | 9:05 | | 1 | | | | | | | | | | |
| MW-92-7 | | 9:55 | | 1 | | | | | | | | | | |
| MW-1 | | 14:00 | | 1 | | | | | | | | | | |
| Duplicate | | — | | 1 | | | | | | | | | | |

| | | | | | |
|--|-------------------|--|------------------|--|---------------------------------|
| Relinquished by: (Signature) <i>Wayne</i> | Date 31 Oct 03 | Received by: (Signature) | Date | Turn-Around: <input checked="" type="checkbox"/> Standard | Rush _____ |
| | Time 6:38 | | Time | | Contact Lab Prior to Submission |
| Relinquished by: (Signature) | Date | Received for Lab by: (Signature) <i>Wayne</i> | Date 10-31-03 | Remarks: | |
| | Time | | Time 6:32 | | |